

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-C10

<400> 13824

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ggcggggccca tgggggggaca cctggtgtcc atgctccggt ggccgccgaa cctggggcctg 180
cccatnctgg ccgtgctgct ccccgcgccg gccgctcacc tccgggtcca ggtccaggat 240
tggcggcagt ggcagtggca gcggtcgcgg gccgagcagc tggacgcgaa cgcgcgggcg 300
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<210> 13825
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-C11

<400> 13825

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cggcttcgac ttctctcca ccaccttctg ctccctacgc ggcttggcag tatcccatgg 180
cggttggacc acccgaccgt cgatgcagcc tgcggtgcga accgcggcgc cggtcgaact 240
caccatgtgg ccgccgcgga ggggttactc ccagttcgcg agcgggttca ccccgctgaa 300
gccgaagccg ctgcgatcca tgctcgacat cgaacgcgcc aagggcctct tccccgacca 360
cctngtcgcc gcatgggatg actatcat 388

<210> 13826
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-C12

<400> 13826

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 gggccaattg ggaccaacgg caaacttggc agagaaagga gaaaaggccg gaagccggcc 120
 gggatcggaa aatgggccccg aaaaacccccg ggagggacca gaaggaggag gagaaggagt 180
 ggtggctgaa ggatggaggc ttgaaggaaa gcccgggccg aacttcagga tgcgtgattc 240
 gacagagacg atgacacgat gaggacggac ggcgacgcgt cggttcgncg cgctccttcc 300
 agtcccataa gtggccgcag agctacaggg aaacaactga tacttacaca atcgctgcat 360
 caccgagctt tgggtacttg ggcccttcta caagcaaatt 399

<210> 13827

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-C2

<400> 13827

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 aatatgattg gagagattga gaacagatca acattcctct tagctgtaaa agctgatgtg 120
 gagacacaag gagaatttgt tgaatctcta gcaaatgagg tccgagcagc aagcttcata 180
 aatattgacg acgttgctgc atttgtaaat tggttggatg aggagttgtc tttcttggtt 240
 gatgagagag cagtgcataa acattttgat tggccagaga gcaaaacaga tgcaataaga 300
 gaagcagctt ttgagtacca ggatctgata aagttacaga acagggtttc atcctttact 360
 gatgatccac aacttgcag tgaagaggct ctcaagaaga tgtattcttt gcttgaaaaa 420
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<210> 13828

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-C3

<400> 13828

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 gcgcccggca cgcccttcgc cgcgaatccg tgccgtctcc ggcgggcgtc tggctctcct 120

gccgccgccc ttcggctcgg gccgctcttc tggccatggg aaaaggtgaa aatcgggtccc 180
ctttctgttt ccccatggg ttttggaaca tgggcatggg gaaaccagct actttggggc 240
tatcaagaaa gcatggacaa cgaacttcag gattgcttca atctggctct aaggaatggc 300
ataaaccttt ttgacactgc tgactcttac ggaactggaa ggctgaacgg acagagcgaa 360
cggctactcg gtaaattcat ccttgagttt gaagggagga ttaaattctcc agatgatgtg 420

<210> 13829
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-C4

<400> 13829

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gcatggcgac ctccgcggcg ctctccaccg ccgccaatcc caccagctc taccgggtccc 120
gcgctttgct gggcaagccg gtgaaggggc ttggcctgag catgggccc gagcgcgccc 180
agcggagcat tgtgtgccag gctgcgagca gcctctccgc cgaccgcgc cccgacatgg 240
agaagcggaa gctgatgaac ctctgctcc tcggcgccat ctcggtgct accgtcggca 300
tggtacgacc ctacggctcc ttcttcgttc ctgcctgcta cgggaacgcc ggcggtggga 360
cccacgcgaa ggacaagctg ggctacgaca 390

<210> 13830
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-C5

<400> 13830

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gttgaggcca gcagagtgat gagtgaacgg agtcatgctt gtgagattag gctttgtcgt 120
tgtagcctcc gtcgcagctt taactcttca gagagctaac agtggggcca ggcacagcaa 180
agactatgtc caagcaagga aaaggaagga taaggctaac aattctgaac atggggagaa 240
agaagaagag aaggaagagg ttaaaacaat cagcggcata atcaactcag cccgctcgct 300

agacgatgac gacgatgata tgctttccga gatcgaaagc ctntatcag gagacattga 360
catccctata ccaagcgatc gcttcgacgt taatggacgg tcacggtaca acaacgctta 420

<210> 13831
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-C6

<400> 13831

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gccagtcccg cgagcaccat tcaccacacc agcgcagccg ccatggccga cgtcgagaag 120
gccacccccg tggccgcacc ggccgagggc gcgggcggcg acgtggccgc cgggagaacc 180
ggcgcggtgg ccgccctgct gcggcggtgg cggaccagg acctgctgga ccggtcgggg 240
tccgcgctgc gcgcgcggc gtgggcgttc tccctgctgg cgttctctgt catggcctgc 300
aacgagcatg gggactggag gcagttcgac cgctacgagg agtacaggta catcggtgcc 360
atcggcctgc tggccttctgt ctacacgacg ctgcagctcc tccggcacgg cgtcc 415

<210> 13832
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-C7

<400> 13832

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tggggaaaaca ctgtacagag tcgacatcta agacggaaga gaacgctgac ctggcacgtg 120
agtcggacat atggagagaa atctaagcgt aaccctcaa taccgtctaa aggctcatct 180
gtgtgcattc tgccatgtca tgtcctgaca tgtcgcctta tatatg 226

<210> 13833
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-C8

<400> 13833

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gtcgcaactc gcctgcaggg cgttcggcgt cgacgccggc gccgccagga tcacgtgctc 180

cctgcaagac gtcgccagca ggtgcgtcga cgccgggaag ctgcccggt tcgcgctcgg 240

cacctcggcg ctctctgtct cgggcgcgag cgcggaaggc acgccaaga ggctgaccta 300

cgacgagatc cagagcaaaa cgtacatgga agtgaagggc acgggcacgg cgaaccagtg 360

cccg 364

<210> 13834

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-051-Q1-K1-C9

<400> 13834

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atgaaggctc ggctcgtcgg cgcgaccgc gccacgcgc tgctgaagaa gaagtccgac 120

gcgctgacgg tccagttccg cgccatcctc aagaagatcg tcgccgcaa ggagtcgatg 180

ggcgagacga tgcgcgcctn ctctttctcc ctgccgagg ccaagtacgt cgctggcgac 240

ggcgtccgcc acgtcatcct ccagtcgcgc cgcgcggcat ccgtccgcgt ccgctcccac 300

caggagaacg tggccggggg caagctcccc aagttcacc acttcgtcga cccgcccgcg 360

gcctccgggg gcccttcaa cgcgtncccg agc 393

<210> 13835

<211> 514

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-051-Q1-K1-D1

<400> 13835

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gttggctcca cnnttccaat tattagtcag atgacaaaat gtggatagga gggtgaaaag 120
tagcgtatta gaaaatggga ttttttnnat ggttgtnng tggggatattt aggggaaggg 180
ggatttaggg ggtaaaccgc ctgttnnacag agtggcagat atttaggggg gaagaagaac 240
ccgctgacgt gtgcacgtnn gagtgggata ttagggagaa gaaatcttag gggtaacccc 300
gcttaagacc agtctaaaag gctcatnnct gtgtgtatat ctgtcanntg tcatgtcna 360
tgtcatgtgt gtctgggtatt atgnaatggc ttgcgtcgtc gtaaagttaa tggctcgtgga 420
ccaatataat attgcgggtg ttgcaccttt caacgtaacc ttactaagta ccttgctatt 480
tgcgatataa tatgtacctt tagttataat aatt 514

<210> 13836
<211> 302
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-051-Q1-K1-D10
<400> 13836

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atgaaatgtt gacactagta tcatgaacat atccccagtc tgggctaact atgggacggc 120
taattgggtca catgctatgg aagacgactg ggatttatct acaagtgatg ctgatggact 180
aagcttagat gcatgtatca acctagtgcc aggatatacg atgctcacca agtggctggt 240
aattaacaac actaacttac tgtcattcca ggttgcaatt ctgatctggt gcggatcgtg 300
ct 302

<210> 13837
<211> 265
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-051-Q1-K1-D11
<400> 13837

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agaatctcat tctcaaagaa ggaccagaaa caattgctgc tttcattgct gaacctgtga 120
tgggtgctgg tgggtgtcatc cctgctgcaa agacctatct tgacaaggct caagcaatcg 180

tcaagaagta tgacattctt ttcatagcag atgaggtgat cactgcattt ggaaggctgg 240
gaactatggt tggatgcgat tacta 265

<210> 13838
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B5

<400> 13838

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cccaagtttg ccagtcctt aggtgggtgac catcggtggc aattagtcca cctcgccgta 120
accagaattc ccagaagaag atgaaattca agaagtagtt tctgaagagg agtctgctcc 180
agtgcctgct catcaagtgg atggagctat ctaactaaag gttgggtaga aggatctaga 240
acctcctcac tgcaacaaag ggtaagcttg aaccgggcta ttccatacat gaaaagacaa 300
tcacgcactg ggagtggaga gatggcgaga gtggcacgta ccctcctggc aaaggaccgc 360
ctaaaaggcg tgggtgtgctc tcgggtggcg cggacctgtt catgcagtgg aggatccgtg 420
g 421

<210> 13839
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-H6

<400> 13839

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ctagcttggc catgtaca 78

<210> 13840
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-H9

<400> 13840

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 ttctcctctc gcccccgcg cgtgtccacc gcgacggcac atccccgctc ctcagcatcc 120
 cgcaccggcg ggtcctcctc gccgccccca acaactcgac ccctcgtcgg ctcttgcccc 180
 ccgctccgcg cgcctttctac taaaactaca acagcgggtgc cgtggagggt ccct 234

<210> 13841
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A1

<400> 13841

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 tccaagacct acccgcagca ggctggcacc gtccgtaaga acggcttcat cgtcatcaag 180
 aaccgcccct gcaaggttgt ggaggtttct acctcaaaga ctggtaagca tggccatgcc 240
 aaatgccact ttgttgccat agacatatc aacgggaaaa agcttgaaga tattgttcct 300
 tcatcacaca actgtgatat tccgcatgtg aaccgtactg agtaccagct gattgatata 360
 tcagaggatg gatttgtgag ccttcttact tcagatggca acac 404

<210> 13842
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A10

<400> 13842

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 acacacgacc caaatctttt cctctccaca ggcgacttcc aacgcaacag cagctcgtcg 120
 agcgagtcgt cgccggccgg ccggtatata cgcaagaaag ccaagaaaaa cacttctccc 180
 tcttcctcca tatctccaag aaccaaaggt agctagctag ccgcgactcg ttggctagac 240
 gattcaagca gcagcgcagg atggtggcgc cgggtggtgat tgcgtcggcc gggctgggca 300
 tgctggccgg cgtggcgatg gccaaaccgt ccctcgggaa cgggctcccg gcggccttca 360

ggtggaacgc gcgcccgcgc tgcgccacgt gcggcggctc tggccgcgtg gaggcgca 417

<210> 13843

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A12

<400> 13843

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acttcctagg tttggtggag aaattttact acctttctgg aagatatgac cttgagctta 120

ccgttggtga tgctgtaatg gaaaattcat ttctacgacc tcttggccat ttggagttgg 180

acctgccaga tgccccagaa aaagccccac gtctctctgc acaagctgtt gacccattct 240

caaaatttgg gccaaaggca gagatatcac atatattccg cgcaccagag aagaggccac 300

ccaaggagct ctgcctagcg ttcacgggtc tcacgcttct gccgtttatt ggattcttga 360

tagggctcgt tcgtcttgga gtgaacttga agaacttccc gt 402

<210> 13844

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A2

<400> 13844

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tcatgtcata gggggatgaa caccatttct aatcgaaggc cgactccgga gcgccaaga 120

cctacccaca tcatgtcgcc accgctcgta agaacggttt catcgccatc aataaccgac 180

cctgcatggt tgtgaagggt tctacctcaa agactgctaa tcatgtcat accaaatgcc 240

actttgtggc catatacata tccatcggtg ataattctga agataatgat tctttatcac 300

acatctgtga tattccgcat gtgaaccttt ctgcatacca tcttattgat atatcttaag 360

attgatttat gagecttctt acttcaaagt gcaacactaa tgatgat 407

<210> 13845

<211> 427

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-A4

 <400> 13845

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 ggggtcgcgc gctctcgctc accgtgctcg tcatgcgagc gccacggag cagctcgcgg 180
 ccgatctcga cgcacacata cgcagggagg aggcacggg cctcgacgtc cgcttcgtcc 240
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 tggtagagct gcacgcgccc cacgtcaggg cggctatctc cagcctggct tccccgtgg 360
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 tgccgc 427

<210> 13846
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-A5

 <400> 13846

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 caccatgcgc aagaccgtgg gcaagcccaa ggtggcggcg tccggcagcc cctggtacgg 180
 ccccgaccgc gtcaagtacc tcggccccct ctccggcgag ccccgagct acctcaccgg 240
 cgagttcccc ggcgactacg gctgggacac cgccgggctg tccgccgacc ccgagacctt 300
 cgccaagaac cgcgagctgg aggtgatcca ctcccgtgg gccatgctcg gcgcgctcgg 360
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 c 421

<210> 13847
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A6

<400> 13847

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ggtgtacaca ttatatatga atgaaacata ttcattaact taagcatact ccttttttta 180
tttaatgagt tgatattaat taaatatctt tttttttaga tttttgcaaa ggttttcattt 240
acgcctaata catatcgagt agaccctgtc gttgtgagaa ttcttaattc atgagttgta 300
gggagggact tatgtcacca caaacagaaa ctaaagcaag tgttggtttt aaagctgggtg 360
ttaaggatta taaattgact tactacaccc cggagtagca aaccaaggat actgatattc 420
tgg 423

<210> 13848

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A8

<400> 13848

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aggcagagag gtacgaggaa atggttgagt tcatggagaa ggtagcgaag actgttgact 180
cggaggagct cactgtggag gagegcgaacc tcctgtctgt tgcatacaag aacgtcattg 240
gagcccgcgc tgccctcatgg cgcacatctt cctccatcga gcagaaggag gagggtcgag 300
gcaatgagga ccgtgtaaca ctcacaaagg actaccgtgg caagattgaa actgagctca 360
ccaagatctg tgatggcatc ctcaagcttc tcgaattcga ccttgtgccg tct 413

<210> 13849

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B10

<400> 13849

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atccccgcag accagcagca tatgatcttc gctgtcaagc agatggagga tgaccggacc 180
ctagcagtct acaacatcca gaaagagagc actctccacc tgggtgctccg actgcgatga 240
gccattaag ccatgagtca tttaatctgc tgctgtacct gagtatatgc gtcgtctggt 300
gccctctggt gtacctcta 319

<210> 13850
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B2

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ggtggtggcg gctacggcgg cggcggcggc ggctggaggg actgatgtgt ggccccatcc 120
tggcttctgc cgagttatct tatctatcta tagtatcgtg ttaccgttcg cttctgtcac 180
cgtgttagtg tccgttctac ctttgatta ggtgttggtta ccccttttgc tcgctttggg 240
tgctcccgcct atgaaacgag acgagagaag aatgagcaag gtttttgttc gcac 295

<210> 13851
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-D7

<400> 13851
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tttat 125

<210> 13852
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-D8

<400> 13852

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atccttattc gcggcttttg ggctgctggt gctagcccag cagattaact ctgagaacaa 180
atcggagtaa ctgacaggca ctgctgaag ttgtgtacct tatgccttgt ccttctatgc 240
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gttgcatttt tctttttata tttatttttt ctcttttttt ttttttttta cttttattta 360
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<210> 13853

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-E10

<400> 13853

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gaggttaggt cagcatggtg agggtcagtg tgctcaacga tgcgctcaag tccatgtaca 120
acgctgagaa gattggcaag aggcagggtca tgatcaggcc gtcaccaag gtcacatca 180
agttcctgac ggtcatgcat cgccatggct acattggaga gttcgagtac ttttatttcc 240
atcgtttctt caatattggt gttttactca ttttatgtt gtatatattt ttttgtttta 300
agttctatct ttttttattt tttttattat tttatatatt tttttttgtc tttatctttt 360
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<210> 13854

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-E11

<400> 13854

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gctttttgggg cataagacca tacatcacccg aaaccgaact cgtcctccac acggttgctt 120
agccatctcg gttgttttagt attttcagtt tttttttact gttctttttt gattttaatt 180
tatttttta 189

<210> 13855

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-E4

<400> 13855

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ctctctcgcg tcggccgccc cgggtgccgc cgccgtcgac gcggaggacc cgctgatccg 120
tgcagggtgt tcccgggtgga gatgacaatt a 151

<210> 13856

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-E5

<400> 13856

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ctttattggc gatgtactat tacaaccaat aattgtagat ttatccctca ataaaatta 119

<210> 13857

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-E6

<400> 13857

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cacacttcct gtcacattga tctcccgttt acttaactat tgccttgaca ccaacatttc 120

aaacgagccg atattcttgc actcaatata tcattcctta gtaacctcac agcctcttac 180
 tttctcaact accatatttc acactctctt ccaacacaaa ccggattctt caacacatat 240
 catttccaaa cgacctatct cactcagaat gtcattgctca tctatcctac aggcctccatc 300
 atcaacctga actac 315

<210> 13858
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-050-Q1-K1-E7
 <400> 13858

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 cactccagct tctctagcat caagcgtgag agctactgct ttcagactgt atagccatct 180
 tagcagttac aatattcctt cattcttttg ttcattggtct catctttata tgtctttttt 240
 tctttttttt tttttttttt tttttttatt cttttttttt atattttttt ttttttattt 300
 ttttttatat ttattttatt ttttttttct atttatctat tttttttatt ttttttaatt 360
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 tttttattat tatttttttt tt 442

<210> 13859
 <211> 129
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-050-Q1-K1-F4
 <400> 13859

gcccggtcac aggtttttcgc ccgccgttac ctgcggctcg gtcgggggtcc tcataaggct 60
 ccttagaaca atcgcaggac atccaagagc tcagcaacgc tttctagcaa gaaacccgac 120
 cctaccaaaa 129

<210> 13860
 <211> 416

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-050-Q1-K1-F7

 <400> 13860

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 agttctgcta agtggttttg gttgctctta taccatctgg ttttgcattt attgtttttg 180
 actacttttt ttattctttt tttttctttt tttatttttt tttttttgtt atttttcttt 240
 ttgtttatta tttttctatt tttttctatt ttttttattt tttttttttt tttttttttt 300
 tatattttta tgtttttttt tttttttttt tttttttttt tatttatatt tatatttttt 360
 ttattttttt ttttttttat ttatttatatt cttttttttt ttttatattt tttttt 416

<210> 13861
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-050-Q1-K1-F8

 <400> 13861

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 gagcgaagaa ggactcccca gaagacaagg agatcattcg ggagctccgt ttgctcgcgg 120
 aacaagacaa ggcactatac cagaagcaga aggagctcta caaaggcttc tttgggccaa 180
 gtctgaagc gaaaccgaag aaggcaaagt acctcgttgt gttttggcag tgcctggtgt 240
 catttaccct ttatctggct gggatgttca aacggaagaa cgagtaggat aatttaccag 300
 aaaaatgtgt agaactggtg gcctaattga ccaacctngt attataagga gtgttgaatt 360
 t 361

<210> 13862
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-050-Q1-K1-G1

<400> 13862

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cctgttccat ttttaagcctt cttagaatat tctccactct cactccttcc tacttaatct 120

cttatccttt aacctcaaac tctccattaa ctattagctc cacgtttttt tccatctatc 180

tttatctatt ttatattacc acacttctac gatttctact ctctacattc tctatcaact 240

atcaatatta tttatcttac ttttactaat tataatctttt caatttca 288

<210> 13863

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-G12

<400> 13863

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cggtcctctc aagtcgggcc agggccccaa gtacatgggtg ttcgcttgct ccgactcccg 120

tgtgtgcca tcggtgtccc tgggcctgct tcttgctgag gccttcaccg tttgtcttat 180

tatttttatg gtctttgtct tcttcttgct caatttctct ggttttcttt tctttttttt 240

attttttttt tttatctttt tttttctatt ttttccattt tttttttctg tttttttttt 300

ttttttattt tttttttttt tttgtttttt tttttttttt tttttttttt tttttttttt 360

gttttttttt tttttttttt tttttctttt attttttatt tttttttttt attttttatt 420

tttttttttt 430

<210> 13864

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-G6

<400> 13864

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ttttcttttt tttctttttt tttttttttt tttttttttt tttttttttt tttttttttt 120

tttttttttt tttttttttt ttcttttttt tttttttttt tttttttttt tttttttctt 180

tttctttttt tttctttttt tttttttttt tttctttttt ttttttttct tttttttttt 240
 tttt 244

<210> 13865
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-D6

<400> 13865

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 ggataaagag agattgagga ggttcattag actaatccc cctgtttacc catacttcgc 120
 atgtaaagct tatattgtcg ttccctttat tcaaattcta tatccattgc attctttctc 180
 attatattat acatacaatg atcattttct atttacacta ttcattacta tttctcaatg 240
 tcttgtttcc tgatattggt atctacactt acttcttttt ataccctttt ttatt 295

<210> 13866
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-H1

<400> 13866

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 ttatcggtac ctacagaaat tccttcaaatt tcctttttta gagtacaatc tggcactcaa 120
 atataaagca actttacata gtcagaaatg acattttgac atttaagaac tagcactacg 180
 aattcagtaa agagggtcca ccagactcct tatcggtggc ctgctcacgt aacaaagcac 240
 aggctaccgc aaataatatg attcttgcca gacaccattc atattccatt accttgaaat 300
 ttatactc 308

<210> 13867
 <211> 180
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-A9

<400> 13867

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tcaacaaatc ttatttacag tcttgatcca tccttgcttc tcccatctct aattgacaga 120
aagattgaat tccctttacc tcatgtcaat actattccac tcatcttcca tatacacaca 180

<210> 13868

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B1

<400> 13868

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gtcatggtaa tgctgataac aatttggttg tttggaaata agaaattgaa gtaccatatt 120
cgtagcaatt tatatttcgt cgcactatth tcttcattat tgatgatgat ggtgctgtac 180
agttactatg aacaactaca cagggtggtc acagatgaat ttaaggacat cggatatgat 240
ctgtacaaaa agactcttht gagttaatgc catagcccgat agtgcaatta ggtgtacctg 300
atcgatatct gctgcaatgc acatcaaact gcaatgtgtg gtacaggcct aagcatgggc 360
agttaattca agattthttaa gatcaggacg aactaatata gatgcatgtg tgagaagtht 420
cttgagagaaa ttaaaat 437

<210> 13869

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B12

<400> 13869

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gcagagatcc agggacatcc gccgggcccc ccgaagcaac cacgcacccc acggccgatc 120
tcgcctggca ccccgccgac gccgcctaaa gctccctatg cccactcccc cgcacaca 178

<210> 13870

<211> 240

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3060-050-Q1-K1-B3
 <400> 13870
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 acatggctgg ggaggaggcc aagaagggtg aggtggaggt caccaaggag cccgaggcgg 120
 cggctaagga ggacgtagcc gatgacaagg ccgtcatccc ctctaccgac ccgcctccgt 180
 cgccgcccgtc ggccgacgac tccaaggccc tggccattgt ctagaaagtt gcatatgatc 240

<210> 13871
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-050-Q1-K1-B6
 <400> 13871
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 tcgagaatag ggtttatgtc atgaccgtcc agcaggcctt tgacgacgcc tttctcgatg 120
 cgaaggatca caggtgatcg gcgcgaggct tcggacctgc cgattttgac gtttttattg 180
 cggcggagcg atgacactgg catctatagc ggcgcgctgt ttggatgctg acgatctgcg 240
 atgtgtcaaa agcgcaccgg ctgtgctctt ctgtgctgcc tacaaggcaa tgcttatgcc 300
 gtccctgcta ccaaaaagta cacatgtgta acaagcttgc tagtcggcat gtgagagtgt 360
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 ttt 423

<210> 13872
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-050-Q1-K1-B7
 <400> 13872
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 ttggcctggc aaaattcttc cttggtattg ggctcccagg tagcgcaaag gattgcttta 120

atcagattga gtctttgtca ttcttggaga acaatagggt cttcgttccg ttgatactat 180
 cactttcttc caaagtatct tcattgactt ctaaagatca gctcaagggt taagttactt 240
 cagtttttgg atcttctttt cttttactta tatttatctt ttttcatttt ttggtatctt 300
 tctttatatt cttttattta tatttttctt tatatttttt tttatttttt attactttta 360
 ttttttactt tttttttttt cttatttttt attttttttt ttttttttat tttttttatt 420
 tttttttat 429

<210> 13873
 <211> 51
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B8

<400> 13873

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<210> 13874
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B9

<400> 13874

aaaaacacac caacaaaaac aaactccacc ttccacttcc ccaacttcta ctctccaca 60
 tctcctctg accttgccac catcacatca ccgcctcaac aatccaatgt ccccgatgag 120
 gcgctgaatg tttcgaacca actgcctcgc ataacatcaa tagaacggga c 171

<210> 13875
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-C1

<400> 13875

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 cttaagttca gatctaagcc ttctcgttct ggcccaatga caacgataaa catctaagaa 120

ccaaacaaaa acagagcacg accatcggtc tctaagcaaa acgcgcagca cgccggggcgc 180
tccacgcacg taggctagca tagcgcgcac ggtgcttctg gaccagctt 229

<210> 13876
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-C3

<400> 13876

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gtttcgtcgg catcggtgctc gtcctgggtc ttgtccttga gcagtcccag caggctgaag 120
ctagaggcaa atgggtgctgc gaaaccgcca ccggaaaata ccattttaat cgctgcgttg 180
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aattatcttt ttttttttat cttttatctt tttatctttt tttttgtttt ctttatatct 420
tttt 424

<210> 13877
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-C4

<400> 13877

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tctttaccca gatagcgcca ctacttttcc tgcaaccctt gctgaactta cggagagatt 120
gaaacactgg aagaacattc ttcagagtaa tgtataggat cgtttcccag caatatttat 180
actgtttgat gattgtttat ctctttttga cttataattt ttcttatttt ttattattta 240
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<210> 13878
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-C6

<400> 13878

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 caaaacgctc atcgtcaact gttccttctc taacaccact aacctagtct tacccatgct 180
 ctaactttcc actgatgctg atgctattac gtgcacctga tctctacctt cttataactc 240
 taactaacta ttctatactt cttatcgaga atgttcactt gagctaacad atatcttaca 300
 actatccata attcataata ttttaaagtt actcctacta accacttctc taaccactca 360
 actcaatcta ctgtaaaac 379

<210> 13879
 <211> 135
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-050-Q1-K1-C9

<400> 13879

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 aagggcactt ttcaaatcga caaaggcgaa aggttcgctt cttgtggcat ctcgctttcc 120
 ttcgagtgcc atggc 135

<210> 13880
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-A4

<400> 13880

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accggaaga ctatcacct cgaggtggag tcttctgaca ccattgacaa tgtcaaggct 180
aagatccagg acaaggaggg catccttcct gaccagcatc gccttatctt ctccttctag 240
catcttgagg acagtcgtac acttgcttta ctactacatc ctgatcgatt catcccttca 300
ttttttgctt ttccttatag tttgcattca tatctttttt 340

<210> 13881
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-D3

<400> 13881

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caaattccatt cctcaatcac aacattcctc atattgttat ctacacatac atctctttat 180
actccttata catctaatta tcataataat attcttaaata aataaaatcc aattatgaat 240
aataaaacaa 250

<210> 13882
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-049-Q1-K1-G7

<400> 13882

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catggacgcg ttccggaaac agctggacgt gctcatgggc gccaaaccgca acggcgacgt 180
cgaggaagtg agccgcaact actacgaccg cgacgtctgc cgctcttcc tcgccgtct 240
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ttctcttcaa ctgcggaaag attatgaaga agcgaaagca aagggaacag annattttga 360
tagagaactc gaggatatga tagaaaggct cattggtgag tgtgacaggg aaaattcaga 420

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450

<210> 13883

<211> 249

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-G8

<400> 13883

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ggcggcgggcg gcggcagcgc tgctgctgct gtcctnctg tcgctcgccg cggcggcgga 180

catgtcgatc gtgtcctacg gggagcgcag cgacgaggag gcgcggcgga tgtacgcgga 240

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<210> 13884

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H1

<400> 13884

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gcacttggtta ccatttgagc atgtattatc aagcagtatt tgatctgtat gactgtattg 120

tgtttatttt ctgacttatg ttttttctg tcatgttatg aatgcaaagg aagaatctga 180

tatggaaacg cattgacagg ctggatgtcc atgtacatgt atcttcatcc atattcttgt 240

gaagcttgaa ctgcgtggta tctgagttag agcttgcata tacaagttac ctcttgatgat 300

gcatgtaatt gaatttgcac ctgtttctgt atttgcagga ttgttccttc cgaagggggt 360

gcacaatggt taggaattgt tattatgggt tactgtaatg caactctaaa tcactatcgt 420

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<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H10

<400> 13885

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tgttgacgca gcagaggctg aaaagagtcc tgctattctt cagattcatc cgagtgtctt 180
aaagcaaggt ggagtccac tggtagcatg ttgcattgct gctgcagaac aatccattgt 240
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<210> 13886

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-H2

<400> 13886

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gctggccgac acggggaact accggttcgt ctacggcaac gactctgggt ctggcgngc 240
cgcgctccgg ccacctacg gcgagacctt ctccaccgc gccaccgggc gcgcctccaa 300
tgggcgctc gtgggtgact tcctcgcgga caccctgggc ctcccgttcg tgcgaccgta 360
tctgagcg 368

<210> 13887

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H6

<400> 13887

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cggagtggaa gaagggcgga gactctcgaa cgaggaaaag gatcccttcg aaagaattga 120

acgaggagcc gtatgaggtg aaaatctcat gtacggttct gtagaggac agtaaggatg 180
acttatctgt cgacttttcc actatcaacc ccaaaaaacc caactctgcc ttacgtaaag 240
ttgccagagt acgattaacc tctggatttg aaatcactgc ttatatacct ggtattggcc 300
ataatttaca agaacattct gtagtattag taagaggagg aagggttaag gatttaccg 360
gtgtgagata tcgcattatt cgaggaaccc tagatgctgt cgcagtaaag aatcgtcaaa 420
cagggcggtc taaatatgg 439

<210> 13888
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H8

<400> 13888
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cctcctctct ctacctagct agctagccag ccttcctgta gcgcggcaga tatggctgcc 120
tccaccacgg cggcggcggc ggcgtcgtg ctgctgctgc tgctcgtgtc gctcgccg 180
gcggcggaca tgctgatcgt gtcctactgg gagcgcagcg acgaggaggc gcggcggatg 240
tacgcggagt ggatggcggc gcacggccgg acctacaacg cctacggcga ggaggagcgg 300
cggtagcagg tggtccggga caacctccga tacatcgacg cgcacaacgc cgtcgccgac 360
gcgggcgtcc actccttccg cctcggcctc aaccgcttcg ccgacctaac caacgacgag 420
taccgcgcca ccta 434

<210> 13889
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H9

<400> 13889
cccacgcgtc cggaaaagtt gggcttcccc atctagaagt tctacaaaag aaattcttgt 60
taatgcggag aagggcgggt atgctgttg tgctttcaat gtgtataacc ttgaggggaat 120
tgaagctggt gttgcagcag cagaggctga aaagagtcct gctattcttc agattcatcc 180

gagtgtctcta aagcaagggtg gagtcccact ggtagcatgt tgcattgctg ctgcagaaca 240
atccagtgtg cctatcagtg tccactatga ccacggcatt tccaagtcag acttgcttca 300
agctcttgaa gcgggatttg attcagtcac ggtggatggt tctcatctaa ctttagggga 360
taacatctta tacacaaaga gcatatcttc cttggctcat gcaaaagggtt tacttggtga 420
agctgagttg ggtaggct 438

<210> 13890
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-A1

<400> 13890

ggaattaccg gccggaccca cgctcctat cgcattgcaa tggaaccttt cgagcttcaa 60
gatgtggctg ggtatggagt ggctggggca gtaaaaggga tctacgctga tgcctttgga 120
gaaagaaatt tgggctctaa ccttggtggc ctgatggtaa aggatggact acaaggaaag 180
gtgaatgcca aaggttacta catttatgag aagggtgcga agccaaagcc agaccctagt 240
gttaagcatg tgatcgagga gtaccgaaag caggcaaaca caatgcctgg tggaaagcct 300
gttactttaa tggatcaaga tattttggag atgattttct tcccagttgt gaatgaggca 360
tgcagggtta tggatgaaaa tgttgaaatt cgagctttcc aacttgatat tcttcctgtc 420
tttgaatggg cttttccaaa a 441

<210> 13891
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-A10

<400> 13891

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caggcccttc gccggcgaag agcaccatc agattcccga gttgtttatc ccagttatct 120
tgcacccgag ggctccgtag catcttatta tgcttcaaga cctgttctac ctgttggatc 180
agatgttctt agaaacgatg taattttctc accaagaacg catgggtatg atgggtccagc 240

aagagtgacc aatcctgctt tggtggcct gactggacta cctgctggag ttacggcacg 300
 gtggcctagt gctctggaag acccgtcttt ggctggcttg agtggattaa ctccagtccg 360
 gtcaacatgc 370

<210> 13892
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-A3

<400> 13892

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 gccgcgcgta tcccgcgcgt gcttcgggac aatgacgatg ggagagcaga gcggggcggc 120
 gtgctcgctc cgcctcctcg acgcgccta cgacgccggc gtcaacttct tcgactccgc 180
 agagatgtag gctcacctgc tccctcatct ccctgcctcg gttcgagagt aatgaaagga 240
 aaggtgtctg gaactctgga tgcacatttg caaacatgtt tactcgt 287

<210> 13893
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-E7

<400> 13893

gacaacccaa cccgacccca agtteccaac gcagaggatc gggctgaatc ctccgcaggt 60
 cgccgcccgc gggaccgacc gaccgatcc tatcgatcga ggatgtcgta cgcctacctc 120
 ttcaagtaca tcatcatcgg cgacacaggc gtggggaagt cgtgcctgct gctgcagttc 180
 acggacaagc gcttcagacc cgtgcacgac ctaccatcg gcgtcgaatt cggcgcccgc 240
 atgatcacca ttgaaaataa gcccatcaag ctccagattt gggacacggc tggccaagaa 300
 tcattcagat ctattactag atcactactac agaggcgctg ctggtgccct tttggtttat 360
 gatattacta ggagggagac cttcaaccat ctgcgaagtt ggtagaaga tgcaaggcag 420
 catgcaaagc ctaaca 436

<210> 13894

<211> 393
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-E8

 <400> 13894

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 cgcangacac gacggccagc gcgctcacct ggatcgtaa gtacctccac gaccacccca 120
 agctcctcga ggccgtccgg gcggagcagg cggcgggtccg cgaggccacc ggccggcggga 180
 ggcagccgct ggcgtgggcy cacacgaaga gcatggcgtt aacgcatagg gtgatttttg 240
 agagcttaag gatggcgagc atcatctcgt tcacgttcag ggaggccgtg gccgacgtgg 300
 agtacaagg gttccttata cccaaagggg tggaaggtga tgcctctctt caggaacatc 360
 caccacagcc ctgactactt cccagatcca cac 393

<210> 13895
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-F1

 <400> 13895

 gctggtcggg acctcacaga ctccctcatg aaaattctca ctgatagggg ttattcctgc 60
 acaacctctg ccgagcgaga aattgtgagg gacatcaagg agaagcttgc atatatagct 120
 cttgactatg agcaagagtt ggagactgcc aagaacagct cctcagttga aaagagctat 180
 gagctgcctg atggccaagt aatcaccatc ggcgagaga gattcaagtg ccccgaggtc 240
 ctcttcagc catccatgat tggataggag gctgctggaa tccatgagac 290

<210> 13896
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-F3

 <400> 13896

 atgtttccac gcactcagct ttacactatc ctttatactt gccatgattc tctcgtttat 60

ctacaaacta ctatctttat ctctacatcc agacctatac gctttctatt ttaattcaac 120
 atattgatca ttccctccct tatectgtct atcattctct ataatatatc ctattaaata 180
 cccttttatt ttattcactt tccaattacc tttgtgggtc aaccataaat aatcaaaaac 240
 taacctctat tactactatt taaactccac ttactttttc ctatatctta atcaacaatt 300
 cctccctctt ta 312

<210> 13897
 <211> 180
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-F6

<400> 13897

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 catggccacc gaggcgagcg tgccctccta gctctggcca tggcagccat cgtcgtggcg 120
 ccgtgcacgg cccagaactc gccgcangac tacgtggacc cgcacaacgc ggcgcgcgcc 180

<210> 13898
 <211> 269
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-F7

<400> 13898

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 cccctacata cttccgtctc tataccgtcc accactaatg ctcccttact tcacataacc 120
 atctccatcc ctccatccaa tcaaagttcc tacattcaac tttttttctc cttcaaacta 180
 tccctctatt acctcaactg cacactgccc ttctactatt acttctaccc acattacctt 240
 tcatacccat attactccta ttacttcat 269

<210> 13899
 <211> 408
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-049-Q1-K1-G3

<400> 13899

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cggcgccctg ctggccggcg ctccctccag cccctcccca tggccgagcg catctccatg 120
gtggtcagga gcttgtccca tggctgagct ccctctccat ggctcgcgctc ctcccctgct 180
ccatccatgg ctgccgtcga gtctccctgg acggggtcaa gtgccatacg ccgtcggctc 240
tagtctccag ctgcctagg tgggtgttcc tctccctctc ctaatctcca tggccgctgg 300
cgctcttgct cgggtccatg gtcgcgactc gagtcacccc tttgtgctgg ccgaccatcc 360
agccatggtg gcgcgcaccc ttgcttncta cttcactcgg cgccccct 408

<210> 13900
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-E3

<400> 13900

cccacgcgtc cggcaaggcg agtagagcag tatgtcagta atacagcatc tatggcatgt 60
gctttttgctc gtcgagttca tgagccccgt tgtgtatttg gtttccgttt tcttggttgg 120
agtttttagt tccaagggtcc gatcatgttt tgatcccata aattctcttc cagccttcga 180
gcaactgagt ccatcttcct aagtcatcag cccagcgag acattgaagc atggggaaac 240
ttaaacagta tggatgatgat taatctcaac attttttttc ttgcagc 287

<210> 13901
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D4

<400> 13901

gtgaaatggc ataaggagct ctttccaggc atagagattg acgctagcca gcctccgggt 60
gttttcaaga ctgagttgta cacactaact ggtgtgccac ctgaacgcca aaaaattatg 120

gtgaagggag gaatattgaa ggacgatgca gattggtcta ctttgggagt gaaagatggc 180
 caaaagttga tgatgatagg cacggctgat gagattgtga aagctccgga gaaaggtcca 240
 gtgtttgttg aggatctacc agaagaagag caagtgattg cactgggtca cagtgtggt 300
 ctttataacc ttgggaatac atgctatatg aattccacat tgcaatgtct gcattctgtt 360
 ccagagctga agtcagcgct gctaagctat tcagatactg taagaggtaa tggca 415

<210> 13902

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D5

<400> 13902

ctgtcactct ctcttgtctc caagtttgta accctagccg ccaagcttga agtccaggc 60
 gtgctcgtgt agggccgcag gccatccggg ctccggcttc cagcatccac caggcgctct 120
 tagaatacgg tgcagcgagc agcaagtcgc cgagcagccg agccaccgcc gaacacaggg 180
 cgccgccgag cagccgagcc gccgccgagc gccgagtctt ctctgtgtct atggcgctctc 240
 catgcaagta cacactacac tggcaccgagc attgacagtc agaactttga ttgcccgtcc 300
 aatagggtacc gagtgacttc ggtacagacg acaaactttc tccacacata ccgcgccact 360
 ccgccactca ctgtgctgac ggatgggggtg gtgctccccg tccacttccc ggcagcttc 419

<210> 13903

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D7

<400> 13903

cgccgttgcg aggggtcgcc tcgccgtatg gaagtcagcc accgagacta catgggtggc 60
 tctacaattc tgggacgata ttgctattgt ggcctctgag catgttaaga agggtgaccg 120
 gatatttgtt tctggacggc ttgtgtcaga tactgttgat gaggggcctg agaagcggca 180
 tgtttactac aagcttgagc ttcaacagtt gaatttcata ggtcccagc cagttcgatt 240
 atatgaacca gaggcaagcc aggatgcctt aggtggaagg cgtgctgatt attttaactc 300

tatctctaata tcaactgagg ataagaatag ggataatatg agctcatctc gatcaaccga 360
agagctgtgg caagtgttct ttgccaatcc tcttgactgg tgggataaca ggacaaatta 420
gaag 424

<210> 13904
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-049-Q1-K1-D8

<400> 13904

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tggattcctg ttaaggagaa attgggtgtc ctcaagaaaa atgcagaacc ttatgtacag 120
aaggatcga caagatcagt ggagttttat gagtcatcaa gggatgctgt gacacctcac 180
gttgtcaaag ttaaagagtt tgctcatccc tactaccagg aagccaagaa gttttctaag 240
ccttacattg atcaaattgc tgagatcact aagccacatg ttgagaaagt tagaactact 300
ctgaagccat acactaagag agcagttcat gcgtatgggt catttcttgg gtctgcaacc 360
acataccatc gacaggctca ggcgaccatc atggactacc tncatcagca tggngtacc 420
aagtcatttg caacgaagga gttagttt 448

<210> 13905
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-049-Q1-K1-E1

<400> 13905

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caaagtgcgt ttacggctgc ttttgatttt ggtggaagaa ttcttaaaaa ggtgttcaaa 180
acttggtgat atcacatcaa gcttctatct gccagccatt ctggtctaca tcgaatggct 240
ggcgtcccat ccagagttgg ctattgactc agagatggan gaacagcatg caaatgccag 300

atctttcttt ctggaaccaa tgtatctcat ttatgaataa gttgatcctt accaaccttg 360
cttctatgga ggacaatgac gatgaggctt gcttttctaa tatgagcatt ta 412

<210> 13906
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B3

<400> 13906

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aaactcaatt taagggcagc ttttcctttg gcctttgagg tgtttatgct tgctcctga 120
taatccttct taattgcacc actggtggca gctgatgact ttgatcttaa cgatgtgcga 180
cggacagatt gagtttctga tggaattgaa ggcgacaaag ctgtggagct tgctgcttca 240
gatccaaaat tatttg 256

<210> 13907
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-049-Q1-K1-B4

<400> 13907

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tggtgctctc tccgtccgaa gtgctctctg aaattcccc aaatatcca gccactgccg 120
tcgtgcagtc aaagtgtcaa accatgccgg cagtagcgtt cgcgtcggct ccggccatat 180
tcgcctccgc ctccgtgcgt ccctgccgca gcgcgggtcc gggcatcctt tcctccgact 240
ccgggcccgc ccgcgcggc gcgcgtggcg ccgtccggtg tgaggtcgcc tcctcctcgg 300
caccgtcggc ggctggaccc caggccgncc ggtgggcca gaggaccgtg gtcacccgc 360
cacagcgccg cgggtgccac ctcatcacca acaagattgt aaatgagata gggaatgacc 420
t 421

<210> 13908
<211> 242

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-B8

 <400> 13908

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 tgaatttcgg tgggaatggc aacgcgacga tccggtgcaa gtactgcagg gcgagcctga 120
 gcgtgatccc cggcgagcgc gccatccagt gcgcgcaatg caactgcgtg acccgcatcc 180
 ggcgggccga ccgcatcccc gttgcgcggc cggcncacgn gccgncggcg nccagcgcg 240
 cc 242

<210> 13909
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-C1

 <400> 13909

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 tccccaaaac cctagcccta gccctagccc tagctctccc acaccgcac tgggagatgg 120
 acggcggcgg cacgcaccgc acgccggaag acgtgttccg ggatttccgc gcgcggcggg 180
 ctggtatgat caaagcgctc accaccgacg tggagaagtt ctaccagcag tgtgaccag 240
 agaaagagaa tct 253

<210> 13910
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-C2

 <400> 13910

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 cggtcggctc acacacagct agccgcccgc gctgctagct tagccaccag tagtccgac 120
 tgatctacag gcagggggcc agcaggggca gctagctagc tagccgcgcg ccggcgccat 180

gatgaacctg aacctgaagc agccgctcgt gctgcccgcg caccacagca atgtcgtcgg 240
ctcgcgcctg tcgtcgtcgt cgccctcggc agccgcccgc agcaggagga ccggcggcgg 300
cgtgtcctcc cggtcgggt cccggcggca cgtgcccgtg ccgaggatca gctgcagcgc 360
caccgaggaa gtcagcggcg ccgtgtcgtc cgtcaccgtg gagaggatgc tcacggtgac 420
ggcgtcgggt 429

<210> 13911
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-C3

<400> 13911

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taatgacata cttggcatgg ttgggtgcta aaaggaccac aatagtttga ataatcggtc 120
cgatgaacat tctacttgag ctttaagcacc tcaagccctt tagcatccct gcaaggcttg 180
tcatctgtaa aggccttctg atagtgattg gccctatfff ggtgacaacc aatagggtct 240
ccttttcttg gcaatagatt catctgggaa gaaagagttt tacgattcaa cagcccctga 300
ctagcttcca aaaattagac gtgacaagtt ccttgaggtc ccacagatca tatgcccgtt 360
gaacaatcaa aagattgcat tcggcagagc atgctagact gcaagattcc tgaacagatc 420
ccttctcatg c 431

<210> 13912
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-C4

<400> 13912

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cgttcgggac cgctccact tgccgcatta aacatgcacc tgccggcgtt gcgcttgctg 180
cgcccatgaa gcacctttcc ctcgtctcgc cctcgtcgtt ttcgcttccg cgcaagatga 240

ggccgcgaag gaagtacaac ttcagggtaa acgctgcaaa ggagctgcat ttcaacaagg 300
atggctcggc tatcaggaaa atgcaaaatg gggtaacaa gcttgagat ctcgtcgggg 360
ttactcttgg accaaagggg cgaaatgtag tcctcgaaag caagtatggc tcacctaaaa 420
ttgtcaatga tgggtg 436

<210> 13913
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-049-Q1-K1-C5
<400> 13913

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cggcgcgctc ctctcccgcg tctctccct cctcgccgtc gcgactgcy gtgccctcgc 120
agtcgcagca gagcacgaca ccgagcccga atcaaccgcc gccgtggccg tcagcgacga 180
caacgtgcta tccgacccca cgggtccacgc tgaggcgggc accgccagcg cactgaaga 240
ggaggccatc ccggcggagc agcagcagca tgggttcgaa ctctccgcc tgccgtctca 300
ccgggtccac caccaccacc acctctggtg gaagcgccac cacgggatct accgtgacgc 360
gtcgacaag ttcccttgtt ctggccacgg cgcgaggcgc gagcaggcag tgagccacct 420
tgccatcttg cccgcatccg c 441

<210> 13914
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-049-Q1-K1-C6
<400> 13914

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gaatcccttc gccaaaaaac caactccgcy agaggtgatg cggagcagca agcgggacct 120
gacgaatgct acgcgaggga tcgagaggga cattgcgtca ttacagcagg aggagaagaa 180
actcgttgct gaaattaaaa ggacagcaaa aactggcaat gaggcagcaa cgaaaattct 240
agcccgtcag ctgatcaggt taaggcagca gatttctaatt ttgcaaggta gccgagctca 300

gattcggggg attgcgacac atactcaggc aatgcatgcc aacacttcag tggctactgg 360
 tttaaaaagt gcgagcaaag caatgggagc tttgaataag caaatggaac ctaccaagca 420
 gatgaaaata atgcaagaat tccaaaagca 450

<210> 13915
 <211> 326
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-B11
 <400> 13915

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 acttagggaa agctgcattg atcactgtca aaggacttgc agctgggtgca actgtccgat 120
 ctgcagtgga aaatttcctg caggttgata tcgtgccctt tctaggcatc cactcccacg 180
 ccgtcgatgt cagtgaattt attctgttct cccagttgtt gctatcactg tctgttacgt 240
 acgatctcaa atcaaactgt catactgacg aaggcatgta aataacttaa atgggttcctg 300
 atcaaacttc aaagggtcaa ggaaat 326

<210> 13916
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-H12
 <400> 13916

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 ggaggatcaa gatggccctt gatgtggcca aaggatgaa ttgcctgcac actagcatgc 120
 ctacaattgt tcatcgagat ctgaaatctc caaacttgct ggttgacaat aattggaatg 180
 ttaaggtttg tgactttgga ctttcgcggt tgaagcacag tacatttttg tcatccaaat 240
 ctacagctgg aacacctgag tggatggcac ctgaggttct gcggaatgaa caatcgaatg 300
 aaaagtgtga tgtttatagc tttggtgtca tcttatggga actggcaaca cttagaatgc 360
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<210> 13917
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-H3

 <400> 13917

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 ccatcgccct tatccccctgg tctgtgccgc tcgtacttgg agaaaaatct ccagccgcct 120
 tacctgctgc cgccgcttcc catccgacag attatttgtt tgcagtcact gatcttctcc 180
 ctgcctcagc cgagtgggtct tccactcttc ccagccgagc tctccctctn cacgcagctc 240
 cctcgcggtg ctccctccat agcgcccgag cgctctgtcc tcggatcgga gctttctctg 300
 cgtgtcgc 308

<210> 13918
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-H5

 <400> 13918

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 agtctgcac ctacttacct tctgccacct ctttccatcc tacacattat ttgcttgcag 120
 tctactgatct tctccctctc tcacccgagt tcccttcac tcctcccatc cgaactctcc 180
 ctctccactc acctccctca ctgtgtctcc tccatatctc ccaaccactc 230

<210> 13919
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-H7

 <400> 13919

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 gtttttggcg attcatgcca aaaaggggga gaaatgagcc caaagcaaaa ggaccgcacc 120

accaccaatt tcaaaaactt agtgctttcc aaaagtattt atcaatgggt atcctattgt 180
 gttcaaaagg gggagaaagt agtattttcaa aaatgggtata tcaaaaccct cttgaacact 240
 aagaggtgga tctcttttag ggggagtctt gtttagtcaa aggaagagca tttgaaacag 300
 ggggagaaaa tttcaaatct tgaaaatgct tttgcaaact cttattcatt tacctttgac 360
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<210> 13920

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-H8

<400> 13920

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 tcgcgaggaa tccactggaa attttgcaat tgtagtagag aactgtatcg tccgacgaag 120
 gtgcatggtg ttggccatgg gtcacggcag ggaacagaga cgagcaggtc ggcgctctcc 180
 cccagctca ttgatcctgt cctcgctata aggtagtcct gcggtggcct ccgaatttca 240
 ctgcatcgaa cagcacatga agcggccacg cggcgccagt cccctctggt ctgcatgac 300
 caatccgaac gatgatggtt acggcgtggt cgggatggag gcggacgca 349

<210> 13921

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-A1

<400> 13921

cgggctctgc tccgcctccc ccgatctccc cacagatctc gtcgcatgg gcctcgccgc 60
 cgccgccgcc gcccgcgcg ccctcctcct ccggggcgta tccggggtcc tctcagtc 120
 tgcgcgggcg gagatcaagc aggagtcctt caaggacgac tcccgcggt ccctcctctt 180
 cgagaagtgc ggcttcggcc tccacggcat ggtgtctatc tccgtcaccg gcgccaagta 240
 ctctccaag ctgctaagc ccgacccgc gcagctcggc ttcttctctc tctctgacga 300
 gtcgctcttc gaggcatct acgatcagcc ggcgcccacg gatctgaacc ccaaccgga 360

atcctncccc acgtgcgtcc tcgccagccc ctacgtcagg cctctcttca ccttcgcaga 420
 ggctcgacga 429

<210> 13922
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-A11

<400> 13922

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 gctgggtatg gagtggcttt ggcagtaaaa gatatctacg ctgatgcctt tggagaaaga 120
 aatttgggct ctaaccttgt gggcctgatg gtaaaggatg gacgacaagg aaaggtgaat 180
 gccaaagggt actacattta tgagaagggt gcgaagccaa agccagaccc tagtgттааg 240
 catgtgatcg aggagtaccg aaagcaggca aacacaatgc ctggtggaaa gcctgttact 300
 ttaatggatc aagatatttt ggagatgatt ttcttcccag ttgtgaatga agcatgcnag 360
 gttatggatg aaaatgttgt aattcgagct tncgatcttg atattgcttc tgttcttgga 420
 atggggctnt cccaaaacaa gggt 444

<210> 13923
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B1

<400> 13923

ggtgatgtta tctatgcat cctgaggcgt aatcttgatg acgtgacatc atccatcaga 60
 tgctcggagg gtcaggcatc ctcttttccc tgcattccgc acgattgatg cggtgactta 120
 ctcgatatt gcaaccgtcc aaatcgaccg ctgcgtactt gatcttgcca ctgagcccaa 180
 tgattctctt attgggggtg ttgctatgga cgatcaccaa gagcttttct cttctggccg 240
 cttgttcgaa agtggcaagg aagcgaataa cccgatgacg attcaaaacc cgaaggatgc 300
 aggtgaaacc gacgatgacg acgacgacga tggcgactct gatgatgatg ttctccttgc 360

gccggtgctg gaaggggata cagattccga agagattagt agcagcagcg atgatggtga 420
tgaagatggt ggtgacgatg atatccc 447

<210> 13924
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-F2

<400> 13924

ttgctggagt cacttgatta ccaaggagct gatcagtggg gccgtgacca ggggaccttt 60
gatgtggctg gaccacctgg tggctctact ggggctgaat ggggtgcttg aacaacttcc 120
ggctctaacc gtgaatggtg ggatcaaact gggggccctg gtcctgggga atggactggt 180
tctccaaggg tcggctccta ctggttgga atcagcaacc caagcccact gcccaaagct 240
gggaataggc gttgaggcat cactttgaga cgtcttgtgc gggattattc caaagtatga 300
atgcccgaag tcagacgaca tattttt 326

<210> 13925
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-048-Q1-K1-F3

<400> 13925

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cgggggcggc gcggcgggcg gcagcggcg cgacccgagc ggcgccaagc tgctgcagat 120
cctcaacgtg cgggtcgtgg gcagcggcga ccgctgggtg gtgctgtccc acgggttcgg 180
cacggaccag tcggcgtgga gccgctgct cccctacctc acccgcgacc accgctggt 240
gctctacgac ctgctctgcg ccggcagcgt caaccggag cacttcgact tccgccgcta 300
cgacacgctc gactcgtacg tcgacgacct nctcgccatc ctgacgcgc tccgcatcgc 360
gcgctgcgcc ttcgtcggcc actccgtctn cgccatgatc 400

<210> 13926
<211> 423

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-F4

 <400> 13926

 aaaaggcatc accgccgcga cgacgatggc agcctcgctc caagccgcgg ccaccctgat 60
 gcagccggcc aagatcgggc gccggggcgc ctttgcctcg ctgccgtccc gcccgtcgtc 120
 gcaactcgcc tgcagggcgt tcggcgtcga cgccggcgcc gccaggatca cgtgctccct 180
 gcaggacgtc gccagcaggt gcgtcgacgc cggaagctc gccggcttcg cgctcgccac 240
 ctggcgctc ctgctctcgg gcgcgagcgc ggagggcacg cccaagaggc tgacctacga 300
 cgagatccag agcaaaacgt acatggaggt gaagggcacg ggcacggcga accagtgcc 360
 gaccatcgac ggcggcgctg agtcgttccc gttcaaagcc ggcaagtacc agatgaagaa 420
 gct 423

<210> 13927
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-F6

 <400> 13927

 ggcaccattc gcactctcct atcaattcac cagcaaaaat tteccagcgc cggcctcgcg 60
 gcagaccggc ctccgtatca ctgcgcaacc gatggcttcc tccccgtggc tgcgcaccgc 120
 cgggtgccgc cctgtccgc cgccagaagc agcagcagct gctgctaccg ccgccgccac 180
 ccccgccccg acgtcggagc aacaccgggt taaggaggaa ggaaacgctg ccgccgcgac 240
 tgtaccgaag caggaggagg ccaagctcca cttgccgcgg gacaacgact cagaagcagt 300
 aacccaagag catggacaaa aaatcaatag atatcaagca atccttgag cccgtctgaa 360
 ggctaagttt ttctctaaga aggtttttga cagagggaac atttttgaat cagaaac 417

<210> 13928
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-F7

<400> 13928

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tgtacaacat cttagaatg gtgtccttgg ttgggtgtcgt ggcttatgtc actgccttct 120
ccttcggtat gggttccatt ccttggtatca taatgtctga gatccttccg gttagcatca 180
agtgtgtggc aggaagcttc gcgacccttg ccaactgggt gacgtccttt ggaataacaa 240
tgacagcaaa tttgcttctg aactggagcg ctgcaggtac atttgctctc tacatgacgg 300
tgagtgcctt gactctcgtc ttcgtcatcc tttgggtacc agagacgaag ggaagaaccc 360
ttgaagagat acagtgggtc ttccagtgag ctccggcatt catatgtaca tgcaaatagc 420
g 421

<210> 13929

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-F9

<400> 13929

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cggcggcccg gcgccctttg cctcgctgcc gtcccgcccg tcgtcgcaac tcgcctgcag 120
ggcgttcggc gtcgacgccg gcgcccag gatcacgtgc tccctgcagg acgtcgccag 180
caggtgcgtc gacgccgca agctcgcccg cttcgcgtc gccacctcgg cgctcctcgt 240
ctcgggcgcg agcgcgagg gcacgcccga gaggtgacc tacgacgaga tccagagcaa 300
aacgtacatg gaggtgaagg gcacgggcac ggccaaccag tgcccgacca tcgacggcgg 360
cgtggagtcg ttcc 374

<210> 13930

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-G1

<400> 13930

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tggggggtcc gcccgccgg cttaccgggt tgccccggcc cttggggccc caaaccccta 120
accttggtcg gggccggccg gtagccaaag cccccggt 158

<210> 13931
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-G10

<400> 13931

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acatgcgtcg ctaacgcgac aatgttccca cactgctcac agactgctat agcgtctcct 120
tctttgcaca taccatccat caattatagc tacacaatga gaaaaccag atcttcaacc 180
atataggcta caacaagcaa tcgcagcaag caacatacct gtatcgccct tgtagtatca 240
acaatcacac accatatcta ctgggcacgc attggtacaa accatcacgg cacaacagct 300
cgcacaaactc atgctacctg cgatcaac 328

<210> 13932
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-G2

<400> 13932

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aaccgcgatg cgcagcagca ccactacggt ttgctcaggc cccgaacccc acccttggat 120
tgctctgatt ccgaggcggc tgttaccga agtttgcagt atggcggggt acccgaaga 180
caaccagcac gagttgaacg ggtacgacga ggaggtcgac gaagaggagg gacaccccg 240
gaggcgggta ggccgggatg ggggctctgg gtacgctgat gctgtcagag aggatgggaa 300
gggggcgggt ggcgactcgt tgggaaagat ttttgtcgga agcgttgctt gggagacaac 360
tgaagaatca ttctccaagc attttgagaa gtatggggca ataactgatt c 411

<210> 13933
<211> 356

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-G3

 <400> 13933

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 acaggagctg gagactgcca ggaccagctc tagtggtgag aagagctacg agctgcccga 120
 tggccagggtt atcacaatcg gtgcagaaag gtttaggtgc cctgaggttc tattccagcc 180
 atccttcatt ggcattggaat ctgctggcat ccatgaagcc acgtacaact ccatcatgaa 240
 gtgcgacgtc gatatacagaa aggatctgta cggtaatgtt gtcctcagtg gtggctccac 300
 tatgttcctt ggtattggtg accgcatgag caaggagatt actgcacttg ccccca 356

<210> 13934
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-G4

 <400> 13934

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 aacgtgtgga tacagttcta caacaacccc gggcgcggt acgccaacgg ggacgacacc 120
 aacctggtga acgcatggaa cacgtggacc agcagcatca ccgcggggag cttctacctc 180
 gggtcccgag cgtctcccca ggccgcgggc agcgggtaca tcgaccccg caccctgacg 240
 ggacggtgat ccccgcatc cgaggcattg gcaactacgg cggcatcatg gtgtgggacc 300
 gctttaacga cgtgcagaac aactacagca gccaggtgaa gggcagcgtc tgatgggcat 360
 accgcatacg aagctcaagc tacagcacct agccatgcat atatatatag tggctattcg 420

<210> 13935
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-G5

 <400> 13935

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ttctggacat atcaagcaac aggcttacag gggatatccc acctgaattg atggagatgc 120
 caatgctaca atctgagaag aattctgcc a gttggaccc gaagttcctt gagttacctg 180
 tattttggac acaatcacgt caataccgtt tgctcaatgc tttccccaat gtattgaatc 240
 tatgcaacaa cagcttgaca ggcataattc cccaagggat tggtcagttg aaagtgctca 300
 atgtcctcaa ctttagcacc aacagcttat ctggagaaat accacaacaa atttgcaacc 360
 ttacaaacct gcaaactcta gacgtatcaa ataaccagct cacaggtgaa ctccca 416

<210> 13936
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-G6

<400> 13936

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 gattgtcccc gcccccgccc ccgctaggcg ccatgaagct gacggtgaag accctcaagg 120
 gaacgcactt cgagatccgg gtgcagccca acgacacgat tatggctgtg aagaagaata 180
 ttgaagagat acaagggaaa gacagctatc catggggcca acaactgctg attttcaatg 240
 gaaaggtctt gaaagatgaa agtacattgg aagagaataa agtcaatgaa gat 293

<210> 13937
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-G7

<400> 13937

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 gacgaggaca gcagcaatgc aatggcgaga ggaactggag gacgggtaag cgagggcacg 180
 tgaagccgtt ggacgcaggg tggaggctat acataacagc ttgatacaat tggaagaaaag 240
 cattcgggtca cctcaaggaa gacgagccag ttgtgagctc cggaaccgaa tcctcttcga 300

agggtggaac caggncgggt nccatccaag cacactgcaa cgcgatgaag caggccaacg 360
cgatcagtat ccggcttcag acgtgccgnc gatcggaag aaaaaga 407

<210> 13938
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-F11

<400> 13938

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gacgcgact agacctctcg gccagggcgt cagctgggcc gggcgtgctt ctccggagaa 120
tctaactg gccgctcacg aagcgcaggt gcaggccag atgaaggatg ggctaggctg 180
taatgcagga gattgagttg tgctctagag tgtactctc ctacctgtg ttccctctct 240
ctctctctct tttgtctttg tctctctaaa gtgtgtactt ctattttcat ttaattttgg 300
tgcatTTGGT acggtagttg tgacgtgagt atgtatgttc gtcagtgtat tccgtacata 360
ataataataa taataatatg ttgcctcttt acctgt 396

<210> 13939
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-H1

<400> 13939

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ccttggtgct ccttccatct cgatctcgga ctctccttcg cagcatcgc accgacggac 120
gcagagcatg gtgcgccgcc gtcccaccac ccgcgcgcgg ctcttggcgc cgcagccgc 180
tctcgccctt ccgcgcgcc gccggcttgc cccggcgctg cccgcgcgc 229

<210> 13940
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-048-Q1-K1-D4

<400> 13940

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ctgagtgtga gtgagtgatc gagctagctg agctccgatc ctcgctagct aggataccgc 120

cataccacaa gtcttcttca caagtttagg agtgacagca acaagagatc gatggcctct 180

gccaccgtgc tcaagtcctn cttccttccc aagaagtccg aatggggcgc caccaggcag 240

gccgncgcgc ccaaggccgc caccgtctcc atggtcgtcc gcgccttcgn ctacgccgat 300

gagctcgtga agaaccgcga aacgatcgcg tcggccgggc cgggcattct ggcgatggac 360

gagtccgacg cgacgttgcg ggaagcggct ggcgtncatc gggctggaga aca 413

<210> 13941

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-D5

<400> 13941

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tcgtgggcaa tgaggactag catgagcggc agcatcacat ggaggaggag gtgggtccaag 120

gagatgtgcg agtcgtcgtc cagcagtaga cgtcggcaga tcgataggcc tagtcggcac 180

tggtgcgcaa gatctccggc ctgtccggcg ccatcgccag cctgtcgtcg ttgagcccgt 240

ctgcgcaggt taactcgcta ttgacacacg tctgtcggg ctgcattccg cgcagcacc 299

<210> 13942

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-048-Q1-K1-D6

<400> 13942

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actggtgttt gcgtcatctc cctggtgctc gacgaaatga ccatgaagag ttttgcgttg 180

tgtgcagccc cacctgcgac accgtcgacc cccggtgagg ttttgttctc gccctgtcgt 240
 tttagcgctc gacgtcaatt actattgtgt gtgttgatga gggagttaac cggtaaagaa 300
 gcgaggccg tgcgacgttt ggcaagtgtt cgatggaagg tccgaaccgg gaacctngcc 360
 tttctcgcg atcttcgggt c 381

<210> 13943

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-D7

<400> 13943

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 tctgccgact aggaggccga gtcggcactg gtgcgcaaga tctccggcct ggccgcctac 180
 atcgacatgc taccgtcatt gagcccgtct acggaggtta actcgtcttt cacctacctc 240
 ttcacgggct gcataccgtg cagtaccgtg gacgtatagc gtctgggccc ggagctgcag 300
 cacatgcgcg cgggcctcat 320

<210> 13944

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-E1

<400> 13944

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 tacgtgtgta accttgcttg gtgcagtgc aacttgactc tggagaacct attcagtgc 180
 caatgactgg tgctggatgc taaggatcgc tacgacagg atagcggctg gtcaaggggg 240
 tttggtttcg tcacctatgg ctctgccgag gaggtctaca atgccatgc aaaccttgat 300
 ggcacgcact tggatggtag acagatccga gtcacggtt cagaatcaaa gccagggcgt 360
 gaattttgag atttttgttaa cgtgggtttt 389

<210> 13945
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-E10

 <400> 13945

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 gctgggacga ggaacgctcc tcacccatgc catccagac cagaagcacg ccatcgagga 120
 ggagaacctc cccgagtgcg cgctctacat gcacatccat cgaccaata tcaatcagca 180
 ggctctatga cctggacctc gctcgacgga acacaagatg ctgcgcaacc acgccttcag 240
 ttatccatgt cgt 253

<210> 13946
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-E12

 <400> 13946

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 cgcatcagca gatgaagctg ttcgccttcg tgaggcgcgc gcgccggccg ccgccgacgg 120
 cgccccgacga cgacacagcc acagccgccg ccgctgcgac cacggagaag cggcgccgga 180
 ggctgtcctc gtcttcgtcg tcgggggtcgg cgtggaagcc gacgctgggc gccatctccg 240
 aggacgccgc catgacgtcc gcgccgtgg cgcatgcgaa ggcagcagct gcgccggcca 300
 gggccaaggc gaggtcgctt cgccgtgccg cccgggcggc cggctacgac gacttcgggc 360
 actacggcca cccgacggtg ctgccggcct tcacgccgac ggcgttctg ttctgagcgg 420
 tggcg 425

<210> 13947
 <211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-E3

<400> 13947

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aaaactggat tcggctgacg gctaacgcag agggccatct ccatactaga cggctctacag 120
cgactcggac catggaccgc acggtcttaa ccgatgcctc tcggtcctaaa ctggatcacc 180
actcaggcgt atcttgact gacgtcgtga ttgacaacga cacctgccta taccggccta 240
tggacctaata aatcga 256

<210> 13948

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-048-Q1-K1-E4

<400> 13948

cgcgctccgca gatctccagc tagcttcctt gctacttact cccctacccg ctgcaccctc 60
gccatggatc cgccgagctc cgatatcgta gtcgacactc catacttccg catctacagt 120
gaccggcgca tcgaccgctt ggctcggcacc gataccgtgc cggcggggctt tgatcccacc 180
accggcgctca cctccaaaga cgctcgttgta gacagcgacg ccggcgctcta cgttcgcttg 240
tacctnccgg acacgggtac ggggtccgat gattccaaga agcttccggg gctagtct 298

<210> 13949

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-E5

<400> 13949

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gcaatctctt gcaggaagta aggagaggtg ctgatagagc agaaatatat agcttggtt 120
tctogaattt gcagtatttg gctgtgtcca gtgataaagg aacaatacat gtcttcaatc 180
taaagataaa tgtgggatcg actgcaaag ataaacctat acctgctcca gatcctgaag 240
tttgcataat aagccccct ctttcgttca ttaagggtgt gttgccgaaa tatttccact 300
ctgagtgggc agtagctcag ttcaggctcc atgaggggga gcagtacatt gttgcatttg 360

gacatgagaa gaataccgtg tcagttgttg gtatggatgg aagcttctac agatgtcaat 420
 tt 422

<210> 13950
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-E6

<400> 13950

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 gcaaccaata ttcaccgtcg gcaatgggcg acctgatccc tgggctgccg gatgaagtgg 120
 ccagggagtg cctcgtcggg gtgggcttcg accagctgcc ggtggtgcgc cgcattctgc 180
 gccagtggaa gtcggaggtg gagtcgccgg actaccaccg ncagcgccgg gcggaggggc 240
 tggcgcgccc ggtgctcgcg ctgggccagg cgcagncgac aggngccgcc ggatgacgac 300
 gacgacgccg gccccgggca caagcgctcg acggcggcca actcgtaccg gctggtgctg 360
 ctggaaccg 369

<210> 13951
 <211> 111
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-E7

<400> 13951

gactaggttc aatgatgaat cgatcgaatt cgcttgggtt agctttatta ttgttgccgc 60
 tattattaat tcgactcgct atagtgtgta aaaaatgata cagaaccaac t 111

<210> 13952
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-D3

<400> 13952

gaccagcaaa gtgagtgtga tcatcacac actgcacaca ctgccatgac cgtcgtgggc 60
aaggaggacg agcaggagcg gcagcagcac aaggaggagg aggtggtcca aggagatgtg 120
cgagtcgtcg tccagcagga gacgtcggcg gacgaggagg ccgagtcggc actggtgcgc 180
aagatctccg gcctggccgc cgccatcgcc aggctgccgt cgctgagccc gtcgccggag 240
gtgaacgcgc tcttcaccga cctcgtcacg gcctgcatcc cgcgagcac cgtggacgtg 300
gagcgcttgg gcccgagct gcagcgcatg cgcgcgggcc tcatcccgct ctgcgccgac 360
gccgaggcgc tgctggaggc gcacta 386

<210> 13953
<211> 374
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-048-Q1-K1-E9
<400> 13953

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cgggatattt tccctcctta tgctccttgc tctttctaca tgtgttgcta acgcgacaat 120
tttccctcaa tgctcacaag ctcctatagc ttcccttctt ccccatacc ttccatcaat 180
tatagcttca atatgtgaaa acccagctct tcaaccatat aggcttcaac aagcaatcgc 240
agcaagcaac atacctttat cgcccttggt gtttcaacaa tcgccagtcc taactttggt 300
gcagtcattg gtacaacat cagggcacia cagctgcagc aactcgtgct acctctgatc 360
aaccaagtag ctct 374

<210> 13954
<211> 304
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-048-Q1-K1-F1
<400> 13954

cgtccggggc cagcagcaag ggcggcgccg acgccgaccc cgaccccgat ccggcgggca 60
ccgtggagct ggacctctcg ggcgtgccgg gcggcgccga cgcgttcgac aaggcggcgc 120
gctactgcta cggcgccaac ttcgagatca cgccgcgccg agccggccgt gctggccgcg 180

gcgggcgggg cctacgcgga gctcgtcctg gccgaggtcc tcgcgggcgc ccaggaccgc 240
 gcggaccacc gcgcgctgct cgagtcctgtg gtcgacgtgc tgccctcgcc cgccgacgcg 300
 cccg 304

<210> 13955
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-F10

<400> 13955

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 tgggggcgtc cttcatcccc ttctttgggt cttcatctc gttcgtcggg agcaccatgt 120
 gcgcgcttct ctcctttgtg ctgccggctc tcttccatct cagcattgta ggctcgtcaa 180
 tacccttgtg gaggcgggtg ctggactacg gcctccttct ctttgggtctg gctttcgctg 240
 gatatggtct tgtcactgct ctctcctcgc attgaacaat ggcccaaaca gtcaaaaaag 300
 tgcagagatc acgatatctt gtgatgacag gagtcaaag gatgctagga gcaccatata 360
 tcanatagcc cggctcggat tagtgcggtga ttgaactgat ccgcttcaac ccatatagc 419

<210> 13956
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-B4

<400> 13956

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 atatttggct ggtgtattcc tgaagatttg atggccaagt tctctgaaat caaacaggctc 120
 aggctgctga cagctgagtt tgtagttcac cctcaggccg gctacaatac attggaggac 180
 ttttgggatg gtgaaatata aaagcatata aatttgttca gaataaaaga gccaggcgag 240
 gaaacaacca caaaaaggg gagatcgaat gcataggccc cagtacgatg aatttggggg 300
 ttacgtgat tgctgaacac aagtattgtg tgactaatct gtgttttgat gtggtaaagt 360
 taaatgggtt agtcacaata agagataagt gtctttgccca caagactttt ggtcactaga 420

tatgggccccg tgcg

434

<210> 13957
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-B5

<400> 13957

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acaagggcca taccgtcgcc gtcaagatca tgctccaaag ctaagatgac aacggccatt 120
tccattgaag atgttcgtag ggaggtcaag attttgaaag ccctatcagg gcacgatgat 180
ctcgtcagat tctatgatgc atgtgaggac gccctcaatg tctacattgt catggaatta 240
tgtgaagggtg gagagttgct agacagaatc ttagcacgag gtgggagata tacagaagaa 300
gatgccaaag cgatcattgt acagattatg agcgtagtgg ctttctgtca tcttcaggga 360
gtagcgcacg gtgacttgaa gccagagaat tttctgttca caacacgaga tg 412

<210> 13958
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-B6

<400> 13958

attcccaccg tctctctaac caccatcagc gccccagact cccccgccct gaaatcctcc 60
accgcgtcca gcctaaaacc tcatctacca ccaccacgcc tcacacgcct tgggtcttcgt 120
ctccctaacc gcacccttcc aatgacagtg ctctagccaa tccgcgcacg ctccctgcat 180
cttcaccggt cgtcacccta accgcgccct tccaacgact aggtcgctac 230

<210> 13959
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-048-Q1-K1-B7

<400> 13959

agagagctga caaaaatcga ctggccatca atggctctgg cgccggcgcc tctccagtgc 60

ttcttgacg ggcagcagca gaccggtgtg cacggtcacg gcgacgccgc ccaagcacgc 120

gaggaggccg tcgaggatct cgtgcagggc gtccggcgat gacaaggaca aggtcccgtc 180

gggagggaac gatcttgggg tcaagcagct cggaagctg gccatggtcg cgctggccgc 240

cggcgtgctg gcgctcgccc ccgtcgacgg cgccgttgcg gccaaagtcg gcggcagggt 300

cggcgggcag gcgttcgggt ccgcgccccg gtcgttcggc cctcggatca acaactncag 360

gacgaacatc tacatcaacc cgnccgtg 388

<210> 13960

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-B8

<400> 13960

actgttcatt ggataaatta tacaagagc ggtatttaaa ggctggaacc tctttcactt 60

gcaggctatt cttaatcaga agggggatgt tcaatacttc attggggttc aattggatgg 120

aactgagcgt gttcgatagg ctgctgcaaa agatgggtgcc atactggtta agaaaactgc 180

acacaatatt gatgaggctg caaaggagct tcctgatgct aatttgagac ctgaggatct 240

atgggctaata cactcaaaac cagtcttgcc aaatccacat atgaacgata ctgcatcctg 300

gagagccatc caaaagggtc ttgaaaacgg ttaaagcatt tatttgaaac atttcataac 360

cattaagcct tt 372

<210> 13961

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-048-Q1-K1-B9

<400> 13961

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cacggcgctc ccaggaatg ggcagcgggc gtcgtcctcc ttctcggcg gcaagacgct 120

gctgagacag gccgaggcgg cccggccgtc gttcgccgtg cgcgccgcgg cggaccccaa 180
caggccgatac tggttccccg gcagcacccc tccgccgtgg ctcgacggca gccttccccg 240
cgacttcggc tttgatccct ggggcctcgg atctgaccgg gagagcctgc ggtggaacgt 300
gcaggcggag ctggtgcact gccgggtgggc gatgctcggc gcggcgggca tttcatccc 360
ggagtctctg accaagatcg gcgtcctcaa cagcnccttc tggtagaccg ncggcgagc 419

<210> 13962
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C1

<400> 13962

cagcgagaga cgggcagggg agaggataaa gggatctaac cctagcatgc gcagcgctgg 60
ggttcggggg ttgcgatggc ggcggcggcg agacagcggg ggacggtgaa gtggttcaac 120
gacaccaagg gcttcggggt catctacccc gaggacggct gcgaagatct cttcgtgcac 180
cagtcgtcga tcaagtcgga cggctatcgc tcgctcgcgg agggcgagg 229

<210> 13963
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C10

<400> 13963

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ccgtgttcct gcaacaaccg tcagccctat tacagcagtt acctttggtg catttggttg 120
cacaaaacat caaggcacia caactacaac aacttggtgt aggaaacctt gctgcctact 180
ctcagcaaca gcagtttctt ccattcaacc aactgggtgc attgaactct gctgcttatt 240
tgcaacaaca actaccattc agtcagctag ctgctgccta ccccagcaa tttcttccat 300
tcaaccaact ggcagcattg aactctgctg cttatttaca acagcaacag ctaccaccat 360
tcagccagct agctgatgtg agcccttggt ccttcttgac acatcaacag ttgttgccgt 420
t 421

<210> 13964
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-C11

<400> 13964

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 aatgatggca tgctttcttt gagagagttt tgcacgctc tttatttaaat ggagaggcac 120
 cgagctggaa ttcctcttcc cctagccctt cctgactctc ttaggcatga tgagacactg 180
 ttacgagcta caggcttgcc ttcaacagca tacaatagtc catcatggca acacaatcaa 240
 ggaggattac cacaagagg ccctggagca cctgnggtgc ctgctggtgg tgtgcggcca 300
 cccttgccat cacatttgca ttcacaaact gacggagcta gcagaccagg gcaaccaaga 360
 tctcacatgc ctgggatgga taatcatgtg gtaattca 398

<210> 13965
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-C2

<400> 13965

 cgcgctccgta gataacaaaa cagaagttac tgttcagctg ataaattata caaagagcgg 60
 taagaaattc tggaacctct ttcacttgca gcctatgcgt gatcagaagg gtgatgttca 120
 atacttcatt ggggttcaat tggatggaac tgagcgtgtt cgagaggctg ctgcaaaaaga 180
 tggtgccata ctggttaaga aaactgcaga caatattgat gaggctgcaa aagagcttgc 240
 ggatgctaatt ttgagacctg aggatctatg ggctaatac tcaaaaccag tcttgccaaa 300
 gccacatatg aaggatactg catcgtggag 330

<210> 13966
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C3

<400> 13966

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gtgatgaccc tctccacag ccaccaagtc tgctctgtcc agagaatcaa gtgccagtgg 120
tgaccatgct cacaattctt taccacacca tagccagaac attctaggga gttgctggcc 180
tatatgaagc ttgttccata atcatctcag aaaacggaga agagggtgaa gtgactgaag 240
aaaagacatc accacctttg gaatctcagg cagagacttg gctctacttc gacatctgcg 300
agtccgagcc tgactcacct acta 324

<210> 13967

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C4

<400> 13967

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cctcgccgcc gtctccgtga agcccggtggc catcaagggt ctcgccggca gctccatctc 120
cggaaggaag ctcgccgtcg ccaggccgtc ggcccgtcc atccgcaggc cccgcgcagc 180
cgccgtggtg gccaagtacg gcgacaagag cgtctacttt gacctcgacg acatcggcaa 240
caccaccgga cagtgggacc tctacggctc tgacgcgccc tcgccctaca acccgctaca 300
gagcaagttc ttcgagacgt tcgcgggtcc gttaccaag agagggtctgc tgctcaagtt 360
cctgctgctg ggcggcggct cacttctggc ctacgtc 397

<210> 13968

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C5

<400> 13968

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tagtgatata tggacaactg attggactga tggacttacc agtcttgatc gttacaaagg 120

acgatgctat cacatcgagc cggttcctgg ggacccagat caatatatct gttatgtagc 180
 ttatacatta gacctatttg aagagggttc tggtactaac atgtttactt ccattgtggg 240
 taacgtatgtt gggttcaaag ccttacgcgc tctacgttag gaggatctac gaattccccc 300
 tgcttaatca aaaactttcc aaggtcgcc tcacggatc caagttgaaa gggataagtt 360
 gaacaagt 368

<210> 13969
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C6

<400> 13969

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 catcgagta ccagatgcga gggatactcg cggctcgcgt aggccgcac gaggacccca 180
 acagcgacaa cttcacgcac gctgtgttca tgcgtttcca gcagaagcaa gacatcgcg 240
 agttccagag taacgcgtac tactccaaag ttgtcgacga gcacgtaaag cccgtttcct 300
 atggctcggg ttctgtagat ttcgagtcg aggtggaaga cgacattata cctctctttc 360
 gcaggggaga ggattttaac tacggcgctg agtttatgct gctgggtgtct ttcttg 416

<210> 13970
 <211> 186
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C7

<400> 13970

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 caccgtccca gagacgacag ggagtatggg catgaagcgg taccggttcc acttcacca 120
 ccacgacgac gaggacgagg agaagaatat ggctgcgagg gaagcgggtc tgcaagctga 180
 tgaaca 186

<210> 13971

<211> 324
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-C9

 <400> 13971

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 cgctgtcttg cctcctcctc ggtcgaagaa gaagaagaag aaaacatgtg tccgggatcc 120
 gtggagtcgt cgtcggcggc gccggcgggc aagagcgtgt gcgtgatgga cgccgcgggg 180
 ccgctggggc acgcgctcgt ggaccgcctc ctccggcgcg ggtacaccgt ccacgccgnc 240
 acgtacgccc gcgaccggga aggaggcgct gccnnnngct ggcacggccg acagccggct 300
 gccggtggag gacgagcggg tgct 324

<210> 13972
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-B2

 <400> 13972

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 ccaaaaacgt ccatcgcggc cgattcccac cgcctctgta gccggcatca ggggcccaaa 120
 ctgccccggc ctggaatcct gcaccgcgtc gcgccgaaaa cttatcggc cggcaacaag 180
 ccggacaagc cttgggcttc gtcggcctaa ccggaccctt tcaatgaccg ggcgctagcc 240
 aaacccggca atcttcct 258

<210> 13973
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-D2

 <400> 13973

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ctttggtcga gtgagtaacg cgcagcgact cctctcccaa ccagattttg atggatttcg 120
 ggacacgcgtg gcacaggcac ggatatgtta gcggatcggg cggccggatc accgncggct 180
 tgctccctct cctcatgatt gggcgcgctc atatccctct tttttttttc tgcgcacgga 240
 gactaggttg gctcttcg 258

<210> 13974
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-H4
 <400> 13974

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 cgtgctcgtg taaccgcgcg agcaccggcg ccttcgcggt cccgaacca ccgcgcttcc 120
 catgcctgcg ttctgcgctg cgactcgctc ttgagggggc ggaggcagcg ccggcgccgg 180
 gcgatggccc cgaggacgag tggggggccgg agcccagggg cgggtccgct gtcacggggg 240
 ccgcggtggc ggaggcgccg gagggcagag aggtcgcgga gctcaaggcg cagctaaagg 300
 acgcgctgta cggcacggag cgggtgcctgc gggcgctccg cgagtcgagg gccaaagtgc 360
 tggagctcat cacgcagctc gagacgcgc 389

<210> 13975
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-H5
 <400> 13975

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 ccatggcgct gccgtcgctc tcgaccccca ccgcgtcggc tccggcctcc ctccggcgagc 120
 ggtggccgccc gctggagtct acccccgcag ttttcaacca gttcgtgtgg tcgctaggtg 180
 tcccagagga cgacgtggag ttccacgacg tgtacgggct cgacgccgac gcgttgata 240
 tggttcccca gcctgtgctc gccgttgctc tctgcttccc cgatccacca caggatgcaa 300
 gttacccttc agaacaactc ttaatttctg gagaaaagga aacacaggac caggtttact 360

ttataaaaca gatcgaatca ttgggaaatg cttgtggaac tattgctcta ctccatgctg 420
 ttggaaatgc atc 433

<210> 13976
 <211> 240
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-H7
 <400> 13976

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 ctaacaaaaa tcgccatctc tggatgtggt attctacagg gtaggggttc caggttgact 120
 caccagttaa aacatgcatt tctggttgta taacaagcaa tgaaccccgt atatatactt 180
 gacagtttga ctcttttgga ggtttgattt ttaattttgg ataagacatt ggtactcttt 240

<210> 13977
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-A10
 <400> 13977

ttttctaggg aatcgggacc aatctatcaa catgcttaac acaccattcc gaatcattac 60
 gggaataaac gattatdddatt cttacaataa accttaaac gaattattcc tatcaaccac 120
 ttctctcatt aatctataaa ctcaagatac tacagacaca aagaatagat tatagtcaga 180
 cagatgctca atatcacatg catgttcaca agatatagac actcatgact gtaatgccta 240
 ctctttatat acaccacagt aatgatagtt gcacaactct tattgatata catatgaaga 300
 actttaatgt cactgtattc tcctatggat ctaatt 336

<210> 13978
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-A11
 <400> 13978

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 gcccttctct tcacggccgc gcccgctcgc gcagtgggtca gcaggaggtc cttcacctgtg 120
 cgtgcctctc tccgcaaggc cactgccacc gccgcccgtgg ccgttgccgc cagcgtcctg 180
 cttgccggcg gcggcgccat ggcccaggag gtgctgctgg gcgcaggcga cggcgggctc 240
 gtcttcgagc ccagccagtt caccgtcaag gccggcgaca ccatcacctt caagaacaac 300
 gccggcttcc cgcacaacgt cgtgttcgac gaagacgagg tgccgagcgg cgtcgacgcc 360
 ttcaagatct cgcaggagga gtacctcaac gcgccaggcg ag 402

<210> 13979

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A2

<400> 13979

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 cgagcgcagg cgccaagaaa tcaccgcccg tcccggtccg tcggtatggt ggccgcatc 120
 gcggtggcgt cggcggggct cgggatgctg gcgggcgtgg ccatggccaa caggtcgtcg 180
 tcgtccgacg gcgccgcgca gtggaaggcc cgggggtccc ggcgctgcgg tgggggcggc 240
 ggaggcgcct ccgcgctgcg aggcattgcg cgggtcgggg caaggaggag tgccgcctgt 300
 gcgcgcgctg gtccgacgcc gggggccggg gaaaggagca gagccggttc gggttccggg 360
 gcgtgcgcgg gcacgcg 377

<210> 13980

<211> 278

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-048-Q1-K1-A4

<400> 13980

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 cggcgacgcc gccggcctgg gggccacact cgccgtacgc cgccggagga cgcgcctcta 120
 ccttcgcaac tgggcctcca agccctgcg ccctcggtc tggctcggcg tggccgcctg 180

tgtttcacag aatcgcgacc gccgtggcca cgtgaccagg ttctccgnct tcggctcgag 240
 cggcagtgc gagcccgng agctgtccga ggatgaag 278

<210> 13981
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A5

<400> 13981

cgtccggtga ggcactacac tacactacac cacagagacc cggcgacaac acacacacgc 60
 gtaagagcga ttgcgctcgg aacgcgaacg ggacgcaata ctctgtgagc tagccaagac 120
 aggaataata ttggctgcgt caccaggggc gagcctctct gttccggtga ccacgacgac 180
 cttcgcggcg gcagcggccg cggccggcgc cgacttgctg atcgtcgtgc cgagtgcgac 240
 atgcgctgct cgcggtatgg ttcccccggtg ctgatgcgca gcgcgacgat gcagcacac 299

<210> 13982
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-A6

<400> 13982

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 gctccgctcg ctccctctgcc aggtctgcgc ccgccgtgca gtacgacccg ctccgccccg 180
 gctccgatgc gtgggcccac cccgacggca tggtcaccgc ggagggtgac gaggagaaac 240
 agcgctatga cacggagggg gagtccaacg actgggaagg ggaagggcc caaggatcat 300
 cagaccccca gggcatcaac gtgccgcgcc agcgctacat cgccgtcccc aaggaggccc 360
 tnctcgatgc t 371

<210> 13983
 <211> 344
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A7

<400> 13983

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ctgcaccatg ttccagacgg tctatcagcc agacttggtga gaagccaatt atagagaaag 120

cggcttgctt tgcgtacgct ctactatcca gaagcagctc ttgcctcgct cacttaccga 180

attatagcct gatgtctcat gagagcaggt gccgatctaa gtcatacgc tgtgatggcc 240

tgaactctcg agaccggata ctgatgcctt gaggctaaca atgatagttg ttcgtacggg 300

tggaacagtc cacttaacag ggcgcgggag actaccctat aggc 344

<210> 13984

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-B1

<400> 13984

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tttacaagac gttccacagc tagaattgcy acaagtcatt tacatagaag gtggcctcac 120

tggcgtacgc catatgcagc gatgtacgct ctcaatgctc acgtccgaaa ctataatgcy 180

tgtaatgacg agatctgggg ctacactgtg ctggtacact gtgatggccc gaacgcacga 240

gaccaggtac cattccctgg gggtaacaat gctcgttctc aggcggggag gaacagtcca 300

cttatcaggg gctcggagac tac 323

<210> 13985

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-B10

<400> 13985

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tttcatacgt gcaaacta tcctgggtaa aggtcaactg atgatgtcaa cagagaatgg 120

cgggataaag gtaaattggac agctgccgac aagcgacagc tctgtgtatg ccagagtcga 180
 tgtggccgct gctcccatca agctttttga cgatgatatt cgacggctcg agcatgtgga 240
 ctcagctcgt agaactggta gacatgctgt tgcctccatc ttggatcctt caaagaccac 300
 tgacatcgat tacctgccgt tcttatactc cagagtgatc acgt 344

<210> 13986
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-H3

<400> 13986

gccgtccaaa aggacgttc ctacctggtt aaaaaccgtt gttccaact tgaagaaaat 60
 ggtcccaaag gcaccgaaaa ggggccaaat gccgtcgaaa atcggggtcc tgttccgtga 120
 ccagcacggt tcccccttg tcaaaagcgt aaccggcagc aagatcctcc gaatcctcaa 180
 ggcccatggg ctggcaccag aaatccccga ggacctgtac ttcctcatca agaaggcgg 240
 ggcgataagg aagcaccttg agaggaacag gaaggacaaa gactctaaat tcaggctcat 300
 tcttgtggag agcaggatcc accgncttgc ccgctactac aagcgacaaa agaagcttnc 360
 acccacctgg aagtatgagt caaccacagc gagcactctg gtggcctaag tgtgg 415

<210> 13987
 <211> 93
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F9

<400> 13987

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 tactggaagg gcaacggccg gccgggaaag gca 93

<210> 13988
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G11

<400> 13988

ggacgctgac tccctgccc acaacatcaa ggatttgcta cacgagcaca ctgttgcaga 60
cgatgtcgca ggaagcaagt gcctgggtgg ggcggttg ggcgtacacg tggccatcct 120
ggcccatcct gccagtgcg gcttcatggc gctctgtgga tggggctcca ctctggaggt 180
tgttgcagcc ggtcttccca tggtgcctg gccctttttc gccgaacaat ttatcaacga 240
gcagctcatc atggacgtgc ttggtattgg attgtctgtc gctgtgatga agccaattga 300
aaatgttttg attgccagta acatgggtgg tgctgtttgt atgatatatg ctctgtttt 360
ttggtcttgc ctgacaagct tcacacttgg aatccatggc cagatagt 408

<210> 13989

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-047-Q1-K1-G2

<400> 13989

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acgacgacga tgaatatggg catggaccgt gtgctcaagg agaagttcgg cgacgctttc 120
aaggaaatcc gtcagggtgtt cgacggggac cagccggcgg cggagacaac ggccgaggcg 180
gtgaaccggc acctggacat actgcggcca gcgatcgca actacggcgg gagcgtggat 240
gtgttgcccg tcgatggcga ggactgcctg gtgaggtacg acgggccgga atccatcggc 300
agcggatatca aggcggccat caaggagaaa ttcccggaca tcaccagtgt ggtgtttacc 360
ctgtaaaaca ccgactgggg ctatgcatat tcggggcagt ccacagcana tgaacatgct 420
gatcgaactt cata 434

<210> 13990

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G3

<400> 13990

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 aataatatat tgctacgata aattactcaa tcagaacttc cctactctt tcaacaaatt 120
 catatcctta ttcaacccat acccatcctt acaatctaca acccccttag ttcttacttc 180
 atcaccttta catacttcat cctgctatct aaaaacacta ctcaatcatc tcttattcta 240
 ccattctaag ttaccaactc caacataata cac 273

<210> 13991

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G4

<400> 13991

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 gccttaattt gtatccatat cccaatggca ggcctatctc tgcaacaccc ctgggcattc 180
 actttcggcc tctaggcaa cgtcatctcc ttcattgacct tcttggcccc gataccgacg 240
 ttctaccgca tctacaagag caagtcgacg gagggcttcc agtcggttcc gtacgtggtg 300
 gccctgttca ggcgccatgt gtggatcttc tacgcgctga tcaagtcaa cgagacgttc 360
 ctcatcacca tcaacgcggc cggctgcgtg atcgagaccg tctacgtggt catgtacttc 420
 gtctacgcg 429

<210> 13992

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G6

<400> 13992

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 cgtcgccgga atcgatcgac ccaaagctcc ctttagagcc cgagctctat ccaaccacg 120
 aacgggatcc cgatgcccggt ggcggcctcg gttctcgccg cagcggcggt ctcgcccccg 180
 ctgacgtggc ggagatggac tcctcttctc gccgcgtcac atccacaggc gaacccgcct 240

cccgcactgc gcccgcgggc gcccgctcct cctctccggg cctcctccgt tcccccgat 300
tcttgccgcg gagccgcgt ccggaggacg ccgtgtgcgg cggcggcggc acttggtgga 360
tgtgtgaagg cggagtcac ggagcgggag gcgctcgatc gggatgctct gaagcgggtg 420
gcgctactcg c 431

<210> 13993
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G7

<400> 13993

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acttcgccgt cacggagcgg tacgccatct tcccgagat acagatcgtc atgcagccca 120
tgggcatggt gacgggcggc gcgcccgtgg ggtctgactc cggcaagggtg ccccggtcgt 180
gcgtgctccc gaagtacgcc acggacgagt cggagatgcg gtggttcgag gtgccgggct 240
tcaacatgat gactcgctg aacgcgtggg aggaggccga cggcgaagag ctggtgctgg 300
tgggccctaa cgtcctgtcc gtggagcacg cgctggagcg catggagctc gtgcactcct 360
gcgtcgagaa ggtgcgcatg aacctgcgca cgggcgcgt gtcgcgcacc ccgctctcgg 420
cggg 424

<210> 13994
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G8

<400> 13994

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tcgtcgggag ggagcgatcg tggggtcaag cagctcggga agctggccat ggtcgcgctg 120
gccgccggcg tgctggtgct cggccccgtc gacggtgccg tggcggccaa gtccggcggc 180
aggtcggcg ggcaggcgtt ccggtccgcg ccccggtcgt ccggccctcg gatcaacaac 240
tccaggacca acatctacat caaccgcgcg gtggcgccgc cgctgggcgg atacgggtac 300

gggagcccg tcttcggcgg ctacggctac ggctggtcgc cgttcagctt cttcgcccc 360
 gggccgagcg tcgcgcgcgg ggtcggcggc ggcttcgaca cgctcgtcct cttcttggtg 420
 ctgggcgcgg tcgtcggagc tgtc 444

<210> 13995
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-G9
 <400> 13995

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 aggctagtag gtggctcctcg aacgaagatg ttggcgggtg tcagcgggca ggtggtggag 120
 gtgccggcgg agctggtggc ggcgggcagc cggacgccgt cgccaagac gaaggcgtcg 180
 cagctcgtgg ggcgttcct ggccgcgtcc gagccggccg tgtccgtgca gctcggcgac 240
 cacggccacc tcgcctactc ccacaccaac caggcgctcc tccgccccag gtcgttcgcg 300
 gccaaaggacg aggtgttctg cctgttcgaa ggggtgctgg acaacctgng tcggctgagc 360
 cagcagcacg ggctgtcaag caagggcgcc aacgaggtgc tcctcgt 407

<210> 13996
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-H11
 <400> 13996

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 ccgctccctg ttgttttggg tgccgtgcgt gcgaaactgc tctggtcggc tgtttctgta 120
 ccccgcgccc agatcgacat ggcctcatgc ttggcctgcc ctagatccgt agctagtcac 180
 tctgtgttct cgaccttgcc ctatcgccga accccagcgc catcgacctt cagctccgtg 240
 ccttgctcct ggctgcgcgc gcgtgcttca ctgtttggtt gtcgtcgcgc aagctcctct 300
 gttgggctcg ccagcccctt gtgtcctaac cgcgccagtc cacgttcgtg gtcattgtca 360
 tcgagttcac caacgctctg ttgccgattc gaccatcgt 399

<210> 13997
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-H12

 <400> 13997

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 atatgtatta ttacaaggca cagtggcaca tacatacagt gatacagctg caatatacat 120
 gaacaccctt tgtctcgctc ctgctttatc tatgcaactg ctggcatgca tgcaaaagac 180
 gcctcgggag ataagacccc tgttattctg ctagtacgta tgcattgcatg tgcacgatcg 240
 atgggcgcga tggatcatatc at 262

<210> 13998
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-F8

 <400> 13998

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 gaatctggat ccttgggctg ccgatgaag tggccaggga gtgcctcgctc cgggtgggct 120
 tcgaccagct gccggtggtg cgccgcatct cgccgcatg gaagtcggag gtggagtcgc 180
 cggactacca ccgccagcgc cgggcggagg ggctggcgcg cccggtgctc gcgctgggtcc 240
 aggcgcagcc gacagcgccg ccgatgacg acgacgacgc cggccccgcg cacaagcgct 300
 cgacggcggc caactcgtag cggtggtgc tgctggaacc ggccgaggga cgggtggacgc 360
 cgctgccgcc cccgcctggg ccaagccaga gcct 394

<210> 13999
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-H2

 <400> 13999

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cagccttcgc cggcaaggca gtgaacgtgc cgtcgtctct cttcggcgag gcccgcgta 120
cgatgcgcaa gacggcgggc aaggcaaagc cggcgggcag ctccggcagc ccgtggtacg 180
gccccgaccg cgtgctctac ctggggccgc tgtccggcgc gccccgagc tacctgacgg 240
gcgagttccc gggcgactac ggctgggata ccgcggggct gtcggcggac ccggagacgt 300
tcgccaagaa ccgggagctg gaggtcatcc actcccgctg ggccatgctg ggcgcgttgg 360
gctgcgtggt cccggagctg ctgccccgca acggcgtcaa gttcgg 406

<210> 14000

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-E2

<400> 14000

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cccctgatta ccacccccgg ccccgccctc gatccaatcc ggttttttct tcgattcggc 120
gcgtggcaac ctgggtcagtc caatccgtcc gtgaagaatt tatccgtatt ttcgtttgcy 180
tcgcatcggt tctgcgaagg atttctgtt cgttttgggg gagaaaggcg tcgtccttga 240
tgtctactat cgcgaccccc cgcgcgccga ttgcgcaaga gaaggccgcc agccggaata 300
agcgcaagta ccgtgccgag ccaccttcca ccgagttggg cccatacggg ctggagtacc 360
cgctgacggc ggactgcatg ggattcgagt ttatgtcgcc tgagaaggct gccatggcag 420
cagcggtagc cgctgccgag ggtgtcagcc ttgacc 456

<210> 14001

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-E4

<400> 14001

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actcatacta cttccatctc tctatctccc gtccttttg ctttcttacc ttactttcta 120

tccacattat actacttttt cacttataac tctaaat

157

<210> 14002

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-E6

<400> 14002

agccaatacg aaatgctaga aaatcggccg cgcttaaggg atgtcctcag cgtcgaggaa 60

catgtgctag ggtgtatact atcaacccca aaaaacccaa ctctgcctta cgtaaagttg 120

ccagagtacg attaacctct ggatttgaaa tcaactgctta tatacctggg attggccata 180

atttacaaga acattctgta gtattagtaa gaggaggaag ggtaaggat ttaccggtg 240

tgagatatcg cattattcga ggaaccctag atgctgtcgc agtaaagaat cgtaacaag 300

ggcgttctaa atatggggcc aaaaagccaa aaaaataagt gattcgtttt tagcccttat 360

aaaaagaaaa cggattcttg aacctctttc acgctcatgt cacgtcgagg tactgcaga 419

<210> 14003

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F1

<400> 14003

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acagcagtag tttagcctcc tccatcagtg gctctccaag gaggaacca aagggccac 120

tggaagctct aatgctaaaa aacgctggag atggtacagc cataacaaca tacggaaaga 180

gggatcccaa tgatgtcttg gatgacgaaa atgtcgcgtc ctattccaa ttgatgtcca 240

agacagttga aggttttgct gatgagaagt atcctgctta caaagatagg caaaaacttg 300

caactgaacg ggagaaggct ataaaagaga aggctgggca agcaagagca caaaggtttg 360

gtggtggcca cagttcagct ctaatttcct ctccaaaaag tgcactccct caaaaacttg 420

ctcaaatta 429

<210> 14004
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-F11

 <400> 14004

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 ccgtgcggga tctgcgggca ctaccacaag tacgaggagg gggaggtatg cggggtgtgc 180
 ggccaccgct ggaaaccgtc ggacggtgag ggcgccccgt cgaggcacga gtccgtctta 240
 cccacagagg tgctcaagga ctctctcttc ctcgggagct acgacaacgc ctcacgctcc 300
 gaggtcctca tgacgctcag tatctccac atccttaatg tacgtattta agccctcttg 360
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<210> 14005
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-F3

 <400> 14005

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 gacgtgaagg gtgncaacat cctgctagac gactgctgcg aggccattgt cggtgacttc 120
 gggctcgcta aactcctcga ccacgggac tcccatgtca ccactgcggt gcggggcact 180
 gtcggccaca tcgcgcccga gtacctctcc actggccagt cgtcggagaa gaccgacgtc 240
 ttcgggttcg gcatcctgct gctggagctc gtcaccggtc agacggcgct ggagtttggg 300
 aagacggcaa accagaaagg agccatgctg gactgggtga agaagacgca ccaggagaag 360
 aagctggacg tgctgggtgga ccaggggctg aggggcggct acgacaagat ggagctagag 420
 gagatggtgc gagtagcgct gc 442

<210> 14006
 <211> 432
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F5

<400> 14006

aagacaagct ggcaaaagga tgatccaagg ggttcaatgc caggtggtac eggactagga 60

caaaatagtg agagcccaaa ggcaaacagt gatggccagt ctgatacttc ctcagaggggt 120

gtggactcaa acaataatac tgcagtttat gctgatctaa acaagtctcc tgaaagtgat 180

tttgagtact gtgaaaatcc tgagatcctt gattcaaata aagcttctca tcaccccagt 240

gaacgtatta atgacttgca aaatatacag atggctgcag atggggtaac agaagtcaca 300

gagctggaag aagcacctgg gctctcagcc tcagccttgg atgaggaacc caatgcttgt 360

gttcaaacag tgcttctcag ggattcaaac ccactagaac acaatcagag aactgtgggt 420

cctagatcac at 432

<210> 14007

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F6

<400> 14007

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tcgtcccgtt ccggccgcct ggccgcgttc tgcgccaacg ccaccacctc tggccgcgtc 120

accatgtccg cggagtggat gcccggccag ccacgccttg cccacctcga cggctcctct 180

cccggggact tcggcttcga tccgtgggc ctcgcgaccg tgccggagaa cttcgagcgg 240

ttcaaggagt cagaggtgta ccaactgccgc tgggccatgc ttgccgtccc cgggatcctg 300

gtgccggaag ctctgggcct gggcaactgg gtgaaggcgc aggagtgggc ggccgtcccc 360

ggcgggcagg ccacgtacct gggcgccccg gtgccgtggg gcacgtgcc gaccattctg 420

gtgatcg 427

<210> 14008

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-047-Q1-K1-F7

<400> 14008

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gaattatgct gctttccaga acagtcttta tgacttggct aatgttgtgc caacgcttgc 120
aaagttctac catcaagcca gtgaatcata tgaactagct tgactcgcc atatcagctc 180
actcatttat ctgcaatttg agaggttatt tcaattcaac cggaaagttg acgaattgac 240
ttacactatt gctgctgagg agataccgtt tcagctggga ttatcaaaaa ctgacctaag 300
gaggg tactg aaatccagct tatctgggat tgataagtca attagcgcta tgtacaggag 360
gttgcaaaag aactgacct ncgacgagtt gtttccttcg ctgtgggaca agtgcaagaa 420
ggagtttttg ga 432

<210> 14009
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-C7

<400> 14009

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gccagtcttc cttctcagct aacaaacagg cagcctactt taggtctcgt agagcaggga 120
tgtcatcgaa catgcaaggg aacaccatct ctccagtaaa gtacacagct cggccttctt 180
ctgtagctct aataggg tca acaaaactcc catattcgcc atgaatcttt tcagcagacc 240
at ttgatga agagccctca cagtagatag actcgtgcaa gagggcataa agaggatttt 300
gatcaaactc agccacattt cgaactcttt taagaagtaa tagcttatcc tctgttttagc 360
ttcaacgacg agtacaagat tatccacacc gttgactcca tcatatcttt cgcaaattaa 420
atctactgc 429

<210> 14010
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-047-Q1-K1-D1

<400> 14010

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gagcaaccgg gcacgcccgc cgccgtccta ctcccacctg cccccgtctt cgttgccggc 120
gacgagcacc cactacacca gattaacatc ctataccatg gcctatctgc cttgttcaca 180
aataaagtta agcaaagtac ttgtcaggag gaagtttcat gagagtggac agaccaattt 240
gccaaagtct cttcactgga aacccttgcg accaggctgt ttgaaaatc ttgtgctgcy 300
atgcaccaag aatttgtcat gggaaacatc tcttccatat gcctctgcag aggatgatgc 360
cagtatcatc aagggaacaa gtgttggtga acctattgat acagaagaag ctccacagat 420
tccaatcctn cagagtgatg aagatg 446

<210> 14011

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D10

<400> 14011

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agtcttcttg gtcacgttgt tgattgcagc ggtcgagcac acacaagcta gctagctagc 120
cgctagagct agggctcgctg gatagatcga catggccggc agggacaggg agccgctggt 180
ggttggtagg gtggtcggcg acgtgctgga ccccttcgta cggaccacca acctcagggt 240
cagctacggt gccaggaccg tgtccaacgg ctgcgagctc aagccgttca tggtggtgca 300
ccatccaagg gtcgaggctg gaggacctga catgaggacc ttctacaccg tcgagatggt 360
ggacccagat gtcctgagcc caagcgaccc gaaccttaag gagtacctac a 411

<210> 14012

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D12

<400> 14012

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taccatcac acacaaacag ccactcctca cctccccgt cctccggttc atgtcctgct 120
gctcccatg tcgccccac tcgacctga ctacataggc ctctcgccgg cggcggtgc 180
cgccgtgcc cagcagacc tgaagggtac cgagctcgc cttggtctgc cgggggtccgg 240
ttcgccggac cgccgtgttg tggctgccac cgcaaccacc ctggacctgc tcccggctaa 300
tggcgccaag cgcggtttt ctgacgaggc gccgacgcca tcgcccgtg cagcttccgg 360
gaagggaag aaggtagcgg aagaggagga cgacaagaag gttgcagcga 410

<210> 14013
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D3

<400> 14013

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caggaatgta ccattcaagt gaaggattca attggtctaa ctgacatcac tattggcacc 120
ggagaggtgg agctagggtc acttaaagat acagtaccta cggacaaaat cgtgactcta 180
tatggaggat ggggtttgtt tgagaagcca taggctgggg aagttctact tcggctgaca 240
tacaaggcat atgtcgagga tgaagaggaa gaagacgaag ctgtgacaag cgagattgat 300
gcgggttacg cctcatacga ggatgtgctg tactacttta gtggcatgag caagggtact 360
gatttcgtca gtaaagaaag ggaaactttc atggatctt 399

<210> 14014
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D4

<400> 14014

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tcgtccgtag gtcaggcagc ggggaggaag aaaaagcgat cgatggcgtc caactacgtg 120
gacacgacgg gcgaggagg acggttccac ggccctcaca gccacagcac cagcagcacc 180

ccgacgggcg gcgcggcggc ggcgggcgca tcgccgcgca acttccggcg cagcttctcc 240
tccgcgtcct ccgcggggcca cagccacggc ggctggcggc ggcg 284

<210> 14015
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D5

<400> 14015

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gcagccggcc aagatcggcg gccggggcgcc ctttgctcgc ctgccgtccc gcccgctgc 120
gcaactcgcc tgcagggcggt tcggcgtcga cgccggcgcc gccaggatca cgtgctccct 180
gcaggacgtc gccagcaggt gcgtcgacgc cggaagctc gccggcttcg cgctcgccac 240
ctcggcgctc ctcgctcgcg gcgcgagcgc ggagggcacg cccaagaggc tgacctacga 300
cgagatccag agcaaaacgt acatggaggt gaagggcacg ggcacggcga accagtgtcc 360
gaccatcgac ggcgggcggtg agtcgttccc gttcaaggcc ggcaagtacc agatgaagaa 420
gctgtgcct 429

<210> 14016
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-047-Q1-K1-D9

<400> 14016

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cggctgcatg aggcggccgg cgcggtggca ctgccccgcc gacgacgcct tcttgtgcca 120
gacctgcgac gtctccgtgc actcggcgaa ccctctcgcg cgccgccacc accgcgtccg 180
cctccccctct gcgtcctgct cctccccacc gcgcgacctg gacgcgccaa cgtgggtcca 240
cggcctcaag cgacggccac gcacgccacg gtccaagcca ggggggagca agagcaacaa 300
gcatgaggcg actcccagct ttatcgccgc ggctgcgtcg tcggcagcgg tccccgacct 360
cgaggcggag gagtccggct ccggtatcct gggcggtaac gacgacca 408

<210> 14017
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-E1

<400> 14017

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 gctgctatgg tctgtgtcat gtacaccacc tcggcacaag caggaaggag tggctacaac 120
 tcgtacgaac ctgatggaag ggggtggatac aactctgttc ccatcaacgg cgggtggcagc 180
 ccctagctag gcgggtggatc ggagcctgta tcagaaatcg aaataatata agactgtctt 240
 caacggatca cactgccgct cccccacgct aaatttgggg gctacagtgc acacgctagc 300
 cgatcaacgg ctacacgtac caggcgctct acgcggatgt gccccctagc cagcttctct 360
 ctccccctcg ttctgtgggtg cctctctcac cctctctaatt attgttcacg tgggcccact 420
 tccaattatt agt 433

<210> 14018
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-C5

<400> 14018

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 ctctcagtgc atctgtccat ccaggacaca aaggccaata catcagttag atagtttata 120
 acttctcaac ctgattagga taaaatgggtc tgaactacat agctagctga cgcagttggt 180
 caacttatct gtggtgaaga tgaaggacat tagggctttc aatagtcctg cacaatacac 240
 ttgcactttc atgtgcaaga catggatttt tatcatgata tgaagggctt gtaacataat 300
 ggctcagcct tgaccatttg tagaagcagc acaaagtcac tttgaagtac atggatttct 360
 gtgaggatta attttttttaa tatttacttg tgttgagaaa tagaaggag tgggtgagagc 420
 tatctcg 427

<210> 14019
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-B11

 <400> 14019

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 ggggcggcgg agcggctgcg gctgttcgag gcggacatgt acgacgccga caccttcgag 120
 cccgccatcg ccggctgcca cttcgtcttc ctcgctcgcca cgcccctgac gcacgacccc 180
 accagcacca agtacaaaaa cacgacggag gcggcgggtgg acgcgggcgcg catcctcctc 240
 cggcagtgcg cgctgtccgg cacggtgaag cgcgctcatcc acacggcctc ggtcacggcc 300
 gcgtcgccgc tcaaggagga cggtagcggg tacaaggact tcgccgacga gtccaattgg 360
 acgccgctca acctctccta cgaattcacc aacgcttacc tggacgacta cgtgc 415

<210> 14020
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-B2

 <400> 14020

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 ctccgtcacg cggaccggca accaccggat gcgcgccgcc gtcgttgcg tgccggagac 120
 gaaagactgg agggaggatg ggattgtgag cccagtga aaaccagggcc actgtggatc 180
 atgctggacc ttcagatatg cctcaciaaac aaagaggcaa aagggtaaac ctgcaggaga 240
 gctttcatgg aatgttgagg tgcagaaact tactcctcc ggtttcctat tagttgtcgt 300
 tttggataag cactactggt gcacttgagg ctgcatatac ccatgcaact ggcaagccca 360
 tctctctctc tgagcaacag cttgttgact gtggttatgc attcaacaat ttcggatgca 420
 ac 422

<210> 14021
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B3

<400> 14021

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aaacccgaag ccaccccgag gatgggcca attcacactt cctagcccggt cctccgtcca 120
aatctctttt cggcccaggg aggcggcgga acttggtgcc tgcacccgag ccctagacat 180
ggatcaacct gagggaaaacc ctgaattccc aagctgtgat gcctactttg aagctatcca 240
gtccaagaag aagttgccac tgactttgca agaactacta actgctgcct ttgctcagat 300
tccagtctca tccttccttg aagttccagc tggtcgagta attgaaattc ctgggtgatac 360
ttctgttatt gatgctgtaa ggactctctc tgaacagaac ataagggcag caccagtact 420
gaatccagaa cctggggctc ctactgattg gcaggg 456

<210> 14022

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B4

<400> 14022

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atgctggacg tgggtggatgg aatgagggtc ctgggaacag tcgtagggaa ggattgatgt 120
catacaaaca attcattcag gaacttgaag atgacgtttc accagttgaa gctcaaagca 180
gatacgaggg gtacaagtca gagtacatca caactcagaa gaaagcatac tttgacctcc 240
ataaggatga agattgggta agaaataagt accatcctac aaaccttgaa aatgtcattg 300
aaagaaggaa tgaactggca agaactactg caaatgattt cttcctaaaa ttgcaaagtg 360
gagatctgga catcgggtcca ggtttgacgg gttcggcagt gagcaaatca ggaattaata 420
gcagtaaaaa tct 433

<210> 14023

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B5

<400> 14023

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gagcctatcc aatgccttat gacaggatca tctccagcgg catacctgtt ctccacagca 120
aactgatcac atggccgcca tgtcactgta ccatcagaat atctcggaga acttcaacaa 180
gctcgacgtc tccaacactg tggcctaact ccttcacacg gctaccgct accgtagct 240
cgacgacaaa ccttgcgacc aacacttcga gaacgcctaa ctgtac 286

<210> 14024

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B6

<400> 14024

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tcaatcatgg cggacgtcga tgtcgaaccg gaggttgccg ccggcgctcc caagaagagg 120
acgttccgca agtacagcta ccgcggcgtc gacctagatg cgcttctcga catgtccacg 180
gacgacctcg tccagctctt cccgcgcgcg gccaggagaa ggttccagag gggctctgaag 240
aggaagccca tggcactcat caagaagctg cgcaaggcga aaaaggatgc tcttgctggt 300
gagaagccag agccagtcaa gacacatctc cgtaacatga tcattgtccc tgagatgatt 360
ggaagcattg ttgggggtcta caacggcaag acgttcaacc aggttgagat caagcctgag 420
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<210> 14025

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B7

<400> 14025

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tcctgggcac ccgcctggcg gaccggcgcc cacagaacgg gcgcacgtg gcccggttcg 120
ggttcggggtt gggcggaag gcgaagcctg ctccgaagaa ggtggcgaag acatcgacct 180

cctctgaccg gccgctgtgg ttccccggcg ccgtggcgcc cgactacctg gacggctcgc 240
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 gcctccagcg g 431

<210> 14026
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-B9

<400> 14026
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 ttgcacctgg tagtgttacc tcttcagctg aattggcttc tagcgttctg aaagggagcg 120
 aggattggga tgctgatgta atggataagt attctattgg aaaagaaggc aaatctaaaa 180
 atattgatcc agttaggaag gatgattcag tagcaatctt agaacagttc tttggcaatg 240
 ttttatcgaa aagcggcagc aacctaccaa cttatgttga gaaccagcca ttgaaaactg 300
 atgatgacat gatcacttct gtgccagaat catccaaatt tgctcattgg tttcttgatg 360
 aagacttgaa acctgcagaa gacttatctt caaagagcct gctctncatg a 411

<210> 14027
 <211> 393
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-C11

<400> 14027
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 acctcgacga caccctgtac ccggggcgaca ccggcatcgg cgcggccctg aggcgcaaca 180
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ccgagctctt ccgcgcgcac ggcagctccc tcgccgggct catcgcgctc ggctacgacg 300
 tgcacccgga cgagtaccac agctacgtgc acggcaggct accgtacgac aggatcgcg 360
 gcgacccgca gctggcgcggt ctgctgcaga gca 393

<210> 14028
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-C2
 <400> 14028

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 ggcacaaatc taacgaagtt catttctact caaggaccac ttgccaatac aattgaggat 180
 ttttggcaga tggatatga gaaccactgt cctgtgattg ttatgctcac caaatttgat 240
 ggtcttaagt gtgatgagta tctaccattg agcaaggac aggctgtttt tggaaaattt 300
 accattaaga tcacaaagtt caggaaagat ggtcagttat tggtgcgtgg tgtggagatt 360
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 gaccatggtg tgccaaac 438

<210> 14029
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-C3
 <400> 14029

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 atccatatat agattgcttg cacaaatcta actaagttca tttctactca acgaccactt 180
 gccaatacaa ttgatgattt ttgtcaaata gtatattaga accactatcc tgtaattggt 240
 attctcacca aatttgatag tcttaactgt cattagatc taccattgag caatgtacat 300
 actattttta caaaatttac cattaagatc acaaagttca caaaagatga tccattatag 360

attcatttgt gaatacattc tacactatga gtcacattaa atgcgatctc ttcttcaca 419

<210> 14030
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B10

<400> 14030

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catccagaag gagagcaccc tccacttggt gctgcgctc atgggaggca tgcagatctt 120
cgtgaagacc ctgaccggca agactatcac cctcgagggtg gagtcttcag acaccatcga 180
caatgtcaag ggcaagatcc aagacaagga gggcatccca ccggaccagc agcgtttgat 240
cttcgctggc aagcagctgg aggatggccg cacccttgcg gattacaaca tccagaagga 300
gagcaccctc cacctgggtgc tccgtctcac gggtggtatg cagatctttg cgaagacact 360
cactggcaag acaatcacc t 381

<210> 14031
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H5

<400> 14031

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gaggcactat tccattcaa ggattgggtg gttgtccctg caaagggtgc attcgatcag 180
accgtttggt ctgcaatctg gaacagtatc tacttcgtgg tcttaggttt ccttcggttg 240
gaatcaccta ccactatcta cagtgaactc aagtctacat tctggcccat gcttaccgct 300
ggatggaagt tgtggccttt tgcacactta attacatatg gtgtggttcc tgttgagcaa 360
agacttctat gggtcgactg tgtggagctt gtctgggtca caatattgtc gacgtac 417

<210> 14032
<211> 309

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H9

<400> 14032

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 taatccaatt agtagtaagt attttctttt ttatttaata gtctctgact atcattaaat 180
 aaagggtaga gcaattcttt tttctagaga ttctagagaa agtgagacaa agtgaaacga 240
 aagagttttc tttgtataag aattagggtct atatcatatc taaatagaaa gggaaatcaa 300
 aaagaaagg 309

<210> 14033
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-A10

<400> 14033

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 ctgcgaagat cggagagtgg ggtggatacg ccggcgatcg tcgggatctg agggctactc 120
 cggaccgtct gatcgagggtg aatgtcacgg cggacaacag cagctgcacg cgctccatct 180
 gcttcatcta catcggagcc gatgggcaac cgtacgagga agggccatgg ggtttcggcc 240
 atgctggcac tgagtacatg attgatctgt g 271

<210> 14034
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-A11

<400> 14034

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 atccggaacg cccccgtctt cgccgcccc gccaccgtcg tgggcatgga ccccaccgtc 180

gagcgcttga agagcggggtt ccagaagttc aagaccgagg tctatgacaa gaagccggag 240
 ctgttcgagc ctctcaagtc cggccagagc cccaggtaca tgggtgttcgc ctgctccgac 300
 tcccgcgtgt gcccgtcggg gacactgggc ctgcagcccg gcgaggcatt caccgtccgc 360
 aacatcgctt ccatgggtccc accctacgac aagatcaagt acgccggcac cgggtccgc 419

<210> 14035
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-A12

<400> 14035

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 ccatcaactc aattgtatac tgaactatgt cagcaggcag ggatcctttg gcatcgagcc 120
 agctaactcg tgatgcgttg gatcctttca tagaggcagc tacgatgagg accaattata 180
 gtgacaagga gatcacaat ggcactgtac tactagcatc tgatgtgctc aatgcaccac 240
 atgtagagat agaacgccac gtgcaagcaa atctatacac actgggttatg gtggatcctg 300
 actcaccaag tgcacgctta ccagagtaca gggaacatct gcatagttga gctgatagca 360
 tctgatatac aagccaattt tgagttgaat attacctaaa ctctggatag c 411

<210> 14036
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-A4

<400> 14036

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 aatggatcag aatggagaat tgctgctggg gaatgtcccc ttcccggtgtg actttcccgg 120
 ctttgaaga agagtgttg tagtcagctt cgtaccggca ccgatctccg gcgtccgcag 180
 ctggttcttt gaaggtccaa gagttgttgt tgcaccttcg tcgatgaaac accctcgatc 240
 ttcttctatt cctgcggtcc gaactttctc gaaacgccgt ccttcaccaa tgggctctcg 300

tcagctcacg aacggctccg cgaacttccc ccatgtaact cctcgtcggg cgaagtgcga 360
cgagaggatg tccagcgtcg tcatgacc 388

<210> 14037
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-A5

<400> 14037

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agaagagcag agatatacat gatcgagcag aggcggatag aagaggatga gcaccacaac 120
tgcgctgcta ctgaacccca acgcgccgct cttcatcccg gctgcgtacc gtcagggtga 180
gtacttctcg cccgagtggg gggagctcgt caacaccacc gcctggttac gtgaccactg 240
cttcggcgag cgccagctcc actaggccgt ctgcgacgac gtcgccgagc tcctactcga 300
cgacctcctt gacaccaacg acctcttcta cgcgcccc 338

<210> 14038
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-A6

<400> 14038

cgctgatatg cccttggggc acgccttcct tcttatcccc tgcgcctgcc ctccccctgt 60
gcagcgcccg tcgcctccct tcccccttcc ctccctccct ctcccccgcg gccgccagag 120
gcaatttcgc cctcgattcg accccgattc gtccgcccgc gaccgggatt ccctccgcca 180
agcgcggtac tgaacgctgc gctccgtgtc gccgctcgaa tccgccatga agggggccaa 240
atccaagggc gccgccaagg ccgatgccaa gctggcggtg aagagcaagg gggcggagaa 300
gcccgccaag ggcaggaaaag ggaaggccgg caaggacccc aacaagccta agagggctcc 360
cagcgctttc ttcgtgttca tggaggaatt tcgcaaggag ttcaaggaga agaaccctaa 420
gaacaagtct gtcgc 435

<210> 14039

<211> 371
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-A9

 <400> 14039

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 tgggtgccgt gaccgcccgc gccatctctc tgctctctc ctcgcctcc tccctgcgg 120
 ctgctgcaa agccaaggcg gcgtccccgt cgctgctgcc atgcatgcac ctncagttcc 180
 tgtcggcagc gagcccgcgg cggcggtggc gggccggcgc ccgcgcggta cgggcgcatg 240
 tgtccaccac cgagaccgcg gcggcggggc cggcgaagac gttcaagaag caggacgagg 300
 ggctggtcac caacaagttc aagcccaagg agccgtacgt cgggaggtgc ctgtccaaca 360
 ccaggatcac c 371

<210> 14040
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-G12

 <400> 14040

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 ggcctcctcg tcgtcctcgc gtcctcctgg cagcctccgg cagcgtggcc gccatcaagt 120
 tcgaggctct ctgccgcagc gtcgccgagt gggcggatgt ccaggcgggtg gcgaccgcgt 180
 ccgcgctgga attcatcgat gtggcctcct tccccggcgg cgctccctctc tacaccgacg 240
 accaggagtg gtctagctgg aagcgggctg gcgacaaggt cctgcacatc gagctgcgcc 300
 ggtgggccga cgctcctggc atcgcgccgc tatcgcccaa caccctcgca aaggtcggcg 360
 gcgggctgtg cgac 374

<210> 14041
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3060-046-Q1-K1-G2

<400> 14041

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cagcaccagg gccctctcct ncacagcctt cggcggcaag gcagtgaacg tgccgtcgtc 120
tctcttcggc gaggcccgcg tgacgatgcg caagacggcg gcgaaggcaa agccggcggc 180
gagctccggc agcccgtggt acggccccga ccgctgtgctc tacctgggccc cgctgtccgg 240
cgcgcccccg agctacctga cgggagagtt cccgggagac tacggctggg ataccgcggg 300
gctgtcggcg gaccgggaga cgctcgccaa gaaccgggag ctggagggtca tccactcccc 360
ctgggccatg ctgggagcgt tgggctgctg gttcccgga 399

<210> 14042

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G3

<400> 14042

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acgtccaggt gtacggaaaa caaatatcat tgcagtacat cccgtgtcta agtataatca 120
gagtttttaa cagatgactg atgagactga tattgcacaa ccagaacca acccaacagg 180
acacctagct gtatagatcg tcatcgtcag ccgcagcacc agccgaagca aacggatcgg 240
ctgcagcagc accagctgtc gccgactgct ctgagaagcg gaactcgtg ccgaaccac 300
gggactgctg caacgtctgg gcgaacgcct ggtacttgcg gatatacagca tactgacac 360
tgcgccgagc atacttcata gactcctcga agtgagctgc tttgatctcg gcaatctcgt 420

<210> 14043

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G5

<400> 14043

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ccagggctca ggtatgaaag tcaccattcg tcagctgggg ccttccatga tacagcagat 120
gcagcagcct tgcaacgagt gcaaggggac tggggagagc atcaacgaga aggaccgctg 180
cccaggggtgt aaggggtgaga aggtcgttca ggagaagaag gttcttgagg ttcattgttg 240
gaaggggaatg caacacagcc agaagatcac cttccctggg gaagctgatg aagcgctga 300
taccgttact ggagacattg tattcgtcct ccagcagaaa gaccactcca agttcaaaag 360
aaaggggtgaa gatctctttt atgagcacac cctgtc 396

<210> 14044

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G6

<400> 14044

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gtacatcccc aacgccaaga taccatgcgt cggcccgcac cccaagaacg tgatcctcct 120
ggcgtgcgac gccttcggcg tgctcccgcc ggtgagcaag ctgaacctgg cgagaccat 180
gtaccacttc atcagcggct acaccgctct ggtcgccggc acggaggacg gcatcaagga 240
gccgcaggcc accttctccg cctgcttcgg cgcggccttc atcatgctcc acccgaccaa 300
gtacgccgcc atgctcgccg agaagatgca gaagtacggc gccaccgggt ggctcgtaa 360
caccggctgg tctggtggca ggtacggcgt gggcaagagg atcaagcttt cctacaccag 420
aaag 424

<210> 14045

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G8

<400> 14045

agttgccgca agcacagaac caactgctgt tttcactgat gtgggacggg tcaacggtac 60
ttcagcggaa aggttttagat ctgcagtgag tggaagaaga gcaaagtgtc ttggtgagat 120
taccagatt gatacacgaa gtctacttct tgagaaagcc aaggcaactg tccgcaaaaa 180

attgcaggag ttaaacatta catcatcttc acgatttgca gagagaagag gatctgaagg 240
aaagctaaat ccttgtggca acaacataaa ggtcaatggt gtcctctctg acaaacctgg 300
caagggagtc aagctatgta gctcaagaag catagaaatc caagtgcctg atactgatga 360
caagaatcca gagcagcgcc gtgtacctgt gtcaattgac gtcccaaacc ccgacttcca 420
tgatttcga 429

<210> 14046
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H1

<400> 14046

cccagcttcc ctttcgttcc tcctcgcccc agcgacgagg cctcccgtag accgagcggg 60
gcaacccggc actgagaggc acgcagagga gcaggaagcc ggagaccaag atgtcgtcgg 120
tgttcagcgg cgatgagacg gcccccttct tcggtttcct cggcgccgcc gccgccctcg 180
tcttctcatg catgggcgca gcgtacggga ccgcgaagag cggcgtcggc gtggcgtcga 240
tggtgtgat gcggccggag ctcgatcatga agtccatcgt gcccgtaggc atggctggtg 300
tgctcgggat ctacgggctc atcatcgccg tcatcatcag cactgggatc aaccccaagg 360
ccaagcccta ctaccttttt gatggctacg ctacaccttc gtccgggc 408

<210> 14047
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H10

<400> 14047

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tgtgctgctg tcgcatcagc cgcccgccga gcctcagatc caccaccagc accgatgccg 120
gtcctctgca cccaccacgt tcagctccgc ctctggtggc gccgtctcgg tcgacgcagc 180
gccacattcg ccctcgcgct cctcgccgct gccctcgtgc tcacgctctc ccgctacgcc 240
gcaggccctg cgccctcccc gcccccgctc tcgttctacg ggcctcgact accggccctc 300

gtcgacatca ccctcgtcta cggcgccatc gacaagggcg cagtgtgctt ggatggtagc 360
ccggctgcct accacttcct tcctggaatt tggga 395

<210> 14048
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H12

<400> 14048

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agatgacaac ttcactgcca aggtgtccga tttcagtgcc tcaaggccaa taccgcacaa 120
ccagacccat gtgacaacat tgggtgaagg gacactaagg tacatggacc ctgagtactt 180
tcatacaagc caactgactg acaagaatga tgtctacagc tttggcgctg tactcatcga 240
gctactgaca agaaagaatc ctatcatgga tgatatcgcg gaagacatta taagcctaac 300
gctgcaattt actatgctat tccatggaaa taagctgctt gaaatcggtg atcctgtagt 360
atctt 365

<210> 14049
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H2

<400> 14049

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cacgctgacg cgcacgctcc gagtgcgagc taaggagct agctagctac ttccggcgcg 120
gcacagccac agctgttttag gtagtagcta gacgtacgta cgtactcaca cgacgatgac 180
gaaggcgtgg aggccgatgc tggcgctcggc caccaagtgc tgcgcggcgg aggacgcggc 240
ggtggccccc gacggcctgg cgcggtgccg gccgcagcag tcggagctct cgcggcggtc 300
ggcgtccttc aggcgcctgt cgtcgtcggc caacagcccg gcgtcggcgg cgggcacgga 360
caaggacggc ggcagcgtca agcaggccgg ggagatggcg ggccccg 407

<210> 14050

<211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-H3

 <400> 14050

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 gttcgggtggc gtgggtgggc ggatcgagat ggcggcgteg gatgttgagt accgctgctt 120
 cgtcggcggc ctgcctggg ccacggacga cactccctc cacaacgctt tcagcaccta 180
 cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggtt 240
 cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg 300
 caaggagctg gacggccgca acatcacctg caacgaggcc cagtcccgcg gcggccgtgg 360
 aggcggcggc ggcggctacg gtggt 385

<210> 14051
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-E12

 <400> 14051

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 tgcacgact ccatatactg ctgctattcc tgaatacaga gttgttttca ttgacaaatc 120
 tgacctgtca ttccaagata gatcatggac actagccaac ggtactggtg tgattgatat 180
 tcaacaccct tgcaagtcta atgttgctgt tcggaaggag ctgcacaaac cagcttcaga 240
 tcgctcttgt atccatctcg agtttgacat ttctggcact ggtcttgtgt atgaaaccgg 300
 agaccatgtt ggtgtatatg cagaaaattc tgttcaaact gtggaagaag ttgaaaggct 360
 ac 362

<210> 14052
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-E2

<400> 14052

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tggaggacta cacctgatcg agaaggtggc gcacttcgcg cgggagcgca tcccggagcg 120

cgtggtgcac gcgcgcgggg cctncgccaa gggcttcttc gagtgcaccc acgacgtgac 180

gtcgtgacg tgcgccgact tcctgcgcgc gcccggcgtg cggacgcccg tgatcgtgcg 240

cttctcgacg gtgatccacg agcgggggtc cccggagacg atccgcgacc cgcgcggtt 300

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cttcttcacg cgcgacggca tcaagttccc cgacgtgat 399

<210> 14053

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-046-Q1-K1-E4

<400> 14053

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ccgaaggggg accacaagcc gaccaagaac caaccgcaa gaagacgacg ggcgtcggcc 120

gccgcggcgg catggggcgaa tcgcttctca ccgcgctctc catggacacc gncacggccc 180

accaaccgca ccaaggcccc ttcaacttcc tttcatgga caccgncttc cacgacgaac 240

ttcgacctct tccttcagcc acagggccct ttccgcgctg cctacatgcc gcggcggtcg 300

ccccccctga catcaacctt cccctagccg ncgacccgtc tccgncacct ctggcgtcgc 360

tcgacgcaa cgttgacatg ctagatgtcg gcctcggcgg ctcgcagcac tacg 414

<210> 14054

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-046-Q1-K1-E6

<400> 14054

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 ccaaacccta cccacccatc tcaaccagcg atgatggcag cggagccctc gccgtcgggtt 180
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 gccgctacgg cctccgcctc cgacccccctc cttcggccac ctacctcccc gaccgccgcc 300
 gcgagcgacg accccttcgt catcgacgac ttcctcgacg aggacgactt caccgncccg 360
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<210> 14055

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-E8

<400> 14055

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 aacgcctcgc tcacgtctta cccctaatta cattccccca tggaaccctc atcctctcaa 120
 tccatccacc catccatccc attcctgaat ttatgctact catatctgta acttctcttt 180
 atccacgtta atgccatcga acaccccgcc ctcaatctat ccacttgtgc tcgtctctgt 240
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 tacgacaaa ccgccccgca cgattgtcac tactcgacac acttcgatgt ccatgtgttt 360
 atcccaatct cccctgcttt cctcattctt ctccctcttt tgcttttaa 409

<210> 14056

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F1

<400> 14056

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 ttaggagcca accggctgcc gagccatgtc gtcgcctgct gcaggcacgg cagctgagcc 120
 gcacgtcgtg gaggactgcc tcggcttcgt gcagctgctg agcgactgca cagtgaggcg 180
 gtccacggac tactccatgc tccgtcccat cggccgcgtg ccgtctgaca cggacctgcc 240

cgtgcagtgg aaggacgttg tgtacgagga cacgcgcggc cttcgggtcc gcatgtaccg 300
gccactggc gccgcatccg gggagactaa gctgcctgtg ctggtgtact tccacggctg 360
ctgcttttgc cttctcagct tctaggtggc cagctttca 399

<210> 14057
<211> 369
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-F11
<400> 14057

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gaaagagcac gcatcgggtgc cgttcgatga ccagtgtcc atcctggaga aggaggccgt 120
gaacgtgtcg ctccagaacc tcaagagcta ccccttcgtc aaggaagggc tggccggcgg 180
gacgtcaag ctggttggcg cccactacga cttcgtcaaa gggcagttcg tcacatggga 240
gcctnccag gacgccatcg agcgcttgac gagcgggttc cagcagttca aggtcaatgt 300
ctatgacaag aagccggagc ttttcggggc tctcaagtcc ggccaggccc ccaagtacat 360
ggtgttcgc 369

<210> 14058
<211> 407
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-F12
<400> 14058

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tcgcctacac cgtcgccggg gctgcctgcg cggctgtcct cgcctgcttc gtgctctccg 180
ccgcggactc gccggcatct gcggcacgca acgatggcg gcgcctnccn ctgtcctcgc 240
gtcaccgcg cgtctggccc gacctcgcgt tcaactggcg ggtggtggtc gccaccgtcg 300
tcgggttcct cggttccgcg tttggcaccg tccgcgcggt cggcggatgc gggatcttcg 360

tgcccatgct caacctcgtc gtcgggttcg acaccaaadc cggcggc

407

<210> 14059

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F2

<400> 14059

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tttgcacga tcaattaaaa gaaaggaccc ttacctgatt tgaatttcac cctcctttaa 120

ataggatatg ctctaagtct tcccatactt tcctataatg actgcaacga ttttctccat 180

tttgcgaatt cctatcttat ttgaagtata ttactatcat atacattatc taaatcgatc 240

cactttaaat aaaatagaaa aaatcgaaag aaaaaaaaaa agaaagagta aataataaaa 300

caggatattc tggttcataa ttctgaaata gagttctttt ttttagtatt actcctcatt 360

aggatgtata tattaatcat cctatcttaa tatatattaa tcacccattt ttaac 415

<210> 14060

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F3

<400> 14060

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tcctatatta ctcaactatt ttcccatttt cctaattcct attttatttc aactatatta 120

ctatcatata cattatctaa atctatccac tttaaataaa atataaaaaa tctaatacaca 180

aaaaaaaaa aataactcaat aataaaacaa catattctct ttcataattc ttaaataaaaa 240

ctctttcttt tattattact cctcattatc atgtatatat taatcatcct attttaatat 300

atattaatca ttctatttta att 323

<210> 14061

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-F4

<400> 14061

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ttcnnnncgg agacgcccgc catggacgcg ttccggaaac agctggacgt gtcacatgggc 120
gccaaaccgca acggcgacgt cgaggaggtg agccgcaact actacgaccg cgacgtctgc 180
cgctctttcc tcgcccgtct ctgccacac gacctctttc agctcacgaa aatggatctc 240
ggtccttggt ctaagattca ttctcttcaa ctgcggaaag attatgaaga agcgaaagca 300
aagggaacag aaaattttga tagagaactc gaggatatga tagaaaggct cattgtggag 360
tgtgacagga aaattcagag ggcctaaaaa cggcttgag atgatgatgc caatgct 417

<210> 14062
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F7

<400> 14062

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cgcaaccgca tccctccccg cgccaacga tgccggccgg ccagccgcac gcgcacgaag 120
ccgctgccgc cgctgcgtc ggcagcggcg cgaaccactc caaccaccga gtgccggcgc 180
actcgccacc gccgctcccc gcggaggtgg tgccggcgta cccgcccccg gaggcggagg 240
acgacgagac ctgggtgtgg acgcagatca aggcggaggc ccgccgcgac gcggacgcgg 300
agccggcgct cgcttcttct ctctacgcca ccgtgttgct ccacccgtcc ctgccccgct 360
ccctctcctt ccacctcgcc aacaagctct gctcctccac gctcctctcc acgctc 416

<210> 14063
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-C2

<400> 14063

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 aataaaacgt gatggtgaat ccatcatggc catgatggat tcaacatcgg aaaagatgta 120
 cctctgccag gtaccaagtt tttgggttaa aaagattaag ctgagaccgg gcgggtgact 180
 tgcacgagaa gaaagtctcg gtgtagtgtc tccgtctgag tcgattaagg accgtctcga 240
 tgtaagcttg atgatcgaag accctttaac tggtcacatg cctcgtcatg ggtaagcctt 300
 gcctcgggca gactaaggcc ggaataagat aacacgaaat gggcgttgag cggtggcgag 360
 agtaacgtgt ac 372

<210> 14064
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-046-Q1-K1-C3
 <400> 14064

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 aatccatcat ggtcatgatt gattcaacat cataatagat ctacctctgc catctaccaa 120
 gtttttgtct taaaaagatt aatctcacac tcttcccatg acttacacca gaacataaac 180
 taagcatagt gtctacatct tagtcgatta acgaccctct caatgtatgc tttatcatca 240
 atgacccttt aactgctcac atgccttgta atcgctaage ctttctact tcaaactaaa 300
 gtcggaataa aataaca 317

<210> 14065
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-046-Q1-K1-C6
 <400> 14065

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 acgatcgata tatttctccc atccacaagt tagctctgga tactagtttg tttgctgtaa 120
 gactttttca gcattatctg aaacgttaaa tgtctttcta tattcttgtg ctgtcttgct 180
 atcatactgt ttgtggattt cctacaaaaa atatctggct gaggttgata atgagtacta 240

catccgttct cgaatatttg tcgcccggta gttcattttt gaactaaaac acggtagttc 300
 atttttgaac taaaacgcga caaataaaaa aagaacggaa ggagtgtatt acagccatta 360
 gtgattacgg attggctcttc cgcacatgag ttcacatgag tgtgctcttg ttgctattct 420
 atagcttggtg caagta 436

<210> 14066
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-046-Q1-K1-C7
 <400> 14066

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 ctcggtcgaa acgacaggtg gtgagaggtg ttccctggct tacaatcaga cggccttcgt 120
 cagatcatgc aagacgatgc tgtattcact ccggaagcct ccaatgcatt ttgagaccct 180
 tgtgttggtg cacttccacg agcatgagcg tgccatcctc gacgcttgca gggcttacat 240
 gtctgggaca gtcgttgggt cgtctgctgg gactgggagc aaccgcagat acgtccatga 300
 caagtgcctt gcagaattcc acaagtcgct gacgctctac actgaacatc tcagggtgta 360
 gtttgctgca aacacacgac gagtgatgga gctggaaaca gaagactaga tcgtgcct 418

<210> 14067
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-D1
 <400> 14067

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 tacctaacgg taactagcct tcctgtaacc cggcaaaaat ggctggcctt gccttcacca 120
 cggccgcggc ggccgcagcg ctgctgctgc tgctcctcct gtcgctcgcc gcggcggcgg 180
 acatgtcgat cgtgtcctac ggggagcgca gcgacgagga agcgcggcgg atgtacgcgg 240
 agtggatggc ggcgacggc cggacctaca acgcccgcgg cgaggaagag cggcgggtacc 300
 aggtgttccg ggacaacctc cgctacatcg acgcgcaaca cgccgncgnc gacgcgggcg 360

<210> 14068
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-D2

 <400> 14068

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 gtgtttcgat atatatggcg aggtccccgt ttgttccgat ggatcagggg aaagagcaag 120
 gcgcgggacg aggagcggcc ggcaataata aggagcggca gcagcaggag caggagcagg 180
 aggaggtgct gctggtgcac agccaggtgc ggcggatcaa gaaggaagac caggaggcct 240
 tcaggagcgc ctttctgaag ctgcgcctgc tggagacctg gccagcgcg gccggcgctgg 300
 cctggcgagc cccgcgctcc ctgtcgccgc tccgccgtgc cggcagcgc atcatcccg 360
 tcccggtgag cgagtgacta gtagcgagca tccgtcgaca 400

<210> 14069
 <211> 176
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-D4

 <400> 14069

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 taggtttggg gtttagttaa atgaccaat gggttggggg tttgtgttaa gcttgggtgtt 120
 gtcttcactg tataattgat attctgctcc catccatgtn cttcgttaat aaatgc 176

<210> 14070
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-D5

 <400> 14070

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cgtcggaact atgacccccca gaaaaggcct ggcgtaccat tgatgctgtg gaaaccgtta 120
 gtcctatct atcctaagct cgtgcaaaac gttgctgaag ggttgacttt cgaggaaaca 180
 aaagagttga ggaacagagg attgaattct ccaccgtta caaaactgac taggaacggt 240
 gtctatgtta atgttgttga taaagtgaga gaagcgttta agactgtgga agttgtccgg 300
 ctagattgca ctcatgttgg gactactgac tgcaagaaaa ttgggtgtgaa gttgagggat 360
 ttggttccat gcattcctat attatttaaa gatgaacaga ttatactat 409

<210> 14071
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-D6

<400> 14071
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 gctcgaccat ggatccgcag cagccggagc ctgtcagtta cctctgcgga gattgcggag 120
 ctgagaacac cctgaagccc ggagatgtca tccagtgccg tgaatgtggc taccgcatcc 180
 tctacaagaa gcggacccgc cggattgtcc aatatgaagc gcgctgaata gtgaagacaa 240
 gggaaaacac tgaagatggt tgatctatta ctgccacat tacctatgta aacagtcttc 300
 tgggggaaat gaaaatgtca gacttaacgt ttgtatgtcg tgtgcctcct ttgaacctga 360
 gctgtataat ttgtaacgct tgaactgggg actgatttga gaactgagac actgcagcaa 420
 tatgttgatg ggtcct 436

<210> 14072
 <211> 240
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-D8

<400> 14072
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 aaccctttcc ttacccaact taatcctctt acatcacata cccctttcct caactttcct 120
 aataactaac atgccacac cactcaccct tccaacact tactcctcct taatgcccaa 180

tttaacacac cctctancaa cccattaaac acccctatta ttgttattac actcaacctt 240

<210> 14073

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-E1

<400> 14073

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agctgctatg gtctgtgtca tgtacaccac ctccggcaca gcaggaagga gtggctacaa 120

ctcgtacgaa cctgatggaa ggggtggata caactctgtt cccatcaacg gcggtggcag 180

cccctagcta ggcggtggat cggagcctgt atcagaaatc gaaataatat aagactgtct 240

tcaacggatc aactgccgc tccccacgc taaatttggg ggctacagtg cacacgctag 300

ccgatcaacg gctcacgcta ccaggcgctc tacgcggatg tgccccctag ccagcttctc 360

tctccccctc gttctgtggg gcctctctca ccctctctaa tattgggc 408

<210> 14074

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-046-Q1-K1-C11

<400> 14074

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tggacaagag cgacatcctc atcggggcctt acaaccggg cgccggcttc accggcggga 120

cgcgcgtcgg cgtgtacctc gacacgcagg aggaggagca cgcgcgctc aagaccttcg 180

ccatggacct nctccaccgc tccggccgca cctgggtccgc cgacttccgc gcgagcgtcg 240

gcgccatgct ggacgccgtg gacgcggagt tcggcaagga cgacggcagc gacaagaagc 300

cctccgncag ctacctcgtc cccctgcagc agtgcattct ccggttcctc tgcaaggcgt 360

tcgtgggcgc cgaccgtcc gncgactggc tgggtggacaa cttc 404

<210> 14075

<211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-A2

 <400> 14075

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 ttgagtgaat gtcgtcagtt gaatgtactc caaatggact ccaattttat cacagggaac 120
 atttcgcctc tacgtagtct aacaagcttg aacatgatca acctctcaca caatatgttg 180
 tcagggatca tccctgcaga actgggtggt atgtcctctc ttaccagct ggatctatct 240
 tataatgatc tacaaggcaa aattccaatg gatggagtat ttagaaatgc ttcagctatc 300
 tcacttggtg gcaactcgag actctgtggt ggtctgtcag atttgacat gccccctgc 360
 cctgttgctt taaaggaaaa ggcagcacia tactacatca ttagagtgtt gatcccaata 420
 tttggc 426

<210> 14076
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-A3

 <400> 14076

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 acacctggcc ttccacctgg gttattgaag tgtcctactc gaatacactt ctgcttcatt 120
 cgcatggtaa cacacgcgcc atatcatctg tctgcactct cacacgcttc aacatgtcta 180
 tgctacaaca gactacgtgc ctaccgatca tccgtccata actgaggtgc tctcgcctat 240
 ttacgtatct gacaacactt cataatgctc cacatccatg gataacaaaa acatccagtt 300
 catagaactc atctatatca ctacatctt ccaaactcaa aactatcccg agcgccgtct 360
 tatctagacc tgcgagtgtg tactctacac ttctgagaca cgcccttgca aaagtccaaa 420
 attttactt 429

<210> 14077
 <211> 308
 <212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-A4

<400> 14077

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gatcaacctt tcacacaata tgttaccagc catcatccct ccataactct ctattatgtc 120

ctctcttacc catcttaatc tatcttatca tgatctacat ctcataattt caatgcattt 180

attatctata aatccttttag ctatatcact tgttctcaac tccacactct atacatctca 240

natcatatat gcacatgccc ttcagtcagc ttgccttaaa agaaaaatca acacaatact 300

acatcatt 308

<210> 14078

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-A6

<400> 14078

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cggctccctgt accagccatg gttccttctt cctacggctg ctgctgctgc tgccgttctt 180

cttcctctgc ttcacgatg tgccgcccgc cggcgcccgc gacaccacac agtcgcctgc 240

actagacaac acgcaaaagg ctatcatgaa cgatgttgcg agtctggtga actccggatc 300

cgncaacacc aggtggaaca ccgaggagtc gaatccgtgc aactgggaag gaatcacctg 360

cacaagtaac acttcttctt cggccgtgac tcggatcgcc ttgtcaaact at 412

<210> 14079

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-A8

<400> 14079

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ggaggggcag gcggcgacga tgccgtgctg ttcaaggggt ccgccatgac ccgccgcggc 180
ggcaccgccg cgctctctta catggcatgc tccgtgttgc tagtgatgtt taacaaagca 240
gctctctctt cgtataatct cccttgtgcg aatgtcatca cactccttca gatggtgtgc 300
tcaacgtgcc ttctttatgt tctgagacga ttaaagatca tctccttcac taatagtgat 360
ccatcagtgc cttctgattc actattcttt gtgccgttta gggtattact acgcaccaca 420
cctctntcct tggcttattt ac 442

<210> 14080
<211> 348
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-B1
<400> 14080

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atctgaccgg ccccgccatc cccaccgncg cgcctcttcc gggcagccat ggacgaggcc 120
ttcgcgcgcg cgggtggaaga cggcctcaag ctcaccaagc gcctcgtcct gccagcggg 180
ggcgggatgc cgccgcccgc gccgcgccc cacttgccga tggaccgga cgaccccgcc 240
gcggcgctgc agcagctcat gccggcgggc cccaatggcg tacgccgtcg tcgtcgacct 300
ggccgncgtc gacagccccg acgtaccag ctaccagccc cagtccta 348

<210> 14081
<211> 266
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-046-Q1-K1-B11
<400> 14081

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cggagatctg atccgatccg atccgatccg tttgtgcttg tgctgcagga gtgagaagta 120

aaaaaatatg gctgccctgc cactggccac cgccgaagta tgcgacgcta acccttacct 180
gatcatgaac ggcgagcttc ggcgcttca gccaatcttc cagatctacg gacggcgcca 240
ggtcttcgcc ggccccatcg tcacgc 266

<210> 14082
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-B3

<400> 14082

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aatgctgaac tcgatgacga aatgcttcag ctgtgggagg ctgcggagag gagctgcaag 180
aaccaaacgg ccaagtcctc gtcctctgag cagcagatac aggcggtcga ggatctggag 240
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gtgtcaaagg gagctgtaga gcctcacgag gcgtggagca agaactgtct tgagaggctc 360
acttctgatg cccagaggct gttgagcatc caagcgagca tcgaggaact gaanaagaaa 420
atggaagggt 430

<210> 14083
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-B7

<400> 14083

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tcgacttctg cgcgccccac gggcccccca agctcccggg tgcgtctgtc gctgggggtgc 120
gagtcgccgg caggtgggtg tggcgatcgg cggcggttg ggcggtgcac catggcgtct 180
acgtgcgggc cttatgcttc ggttctcgta tcgggtctga ttcttagaat tttcacac 238

<210> 14084
<211> 419

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-B8

 <400> 14084

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 ccccgacgcc caggggagtg tcgctgatgt ggtgctcgga ttcgatggct tggatccgta 120
 cgtgaaaggc atgtcacctt attttggtg catagttggc cgtgtcgga ataggatcaa 180
 ggatgggaag ttacactaa acggacttga gtattcatta cctgtcaaca atggacctaa 240
 cagccttcat ggtgggttga agggatttga taaggctgtg tgggatgtcg tggagcacia 300
 agatggcgaa tgcccttcaa taacttttca gtatcacagc aaggacgggg gngaaagcta 360
 tccaggcgat gtaaccattc gagcaacata ctctcttct gaagctacta ctctaaagc 419

<210> 14085
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-A12

 <400> 14085

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 gtgagtgagt gatcgagcta gctgagctcc gatcctcgct agctagctag gataaccgcca 120
 taccacaagt cttcttcaca agtttaggag tgacagcaac aagagatctc gatggcctct 180
 gccaccgtgc tcaagtcctc cttacttccc aagaaatccg aatggggcgc caccaggcag 240
 gccggcgcgc ccaagccggc c 261

<210> 14086
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-G5

 <400> 14086

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gggaacatat ggtgttgtat acagagcaag ggataagaag acaagtgaga ttgttgcatt 120
gaagaaggta aagatggaga gggagcgaga aggtttccca ttaacctctc ttagggaaat 180
aaatatcctc ttgtctttcc accatccttc aatcgtggat gttaaggaag tagtagttgg 240
aagtagttta gatagcattt ttatggttat ggagtacatg gaacatgatc ttaaagggtg 300
catggagacc atgaacaac catatacaca aagcgaggtc aaatgtttga tgcttcagct 360
gctagagggg tgtaaataac tacatgac 388

<210> 14087

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G6

<400> 14087

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aaaggcacct ttttttgaac atggcgggg agggagcccc ggtgctggtg aggcagctg 120
gcggcgtgga ggagctgcgg cagctccgc cggggttccg gtccgcccc acggacgagg 180
agctcgtggt gcagtacctc cggcgcaagg ccttgggcgc gccgctcccc gccgccgtca 240
tccccgtcgt ccgcgacctc tacagcctcg acccctggga cgccgtcgac gtggccggcc 300
gccctgatgc gagcagccaa agcgagagat acttcttcgc ggtgc 345

<210> 14088

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G7

<400> 14088

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ctatgttctt catatggaga gtgcccacga tctgaagctg acaactgatc ctagagatat 180
gaacattctc ctggacgact accaagtcct acatcgt 217

<210> 14089

<211> 306
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-G8

 <400> 14089

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 ggcgggccgt cgcgccgtgc tggggctggt gggcactggc atcgtcggcg gcgccttgtc 180
 gcaggcggtg cacgccgaga ccgtcaagac catcaagatc ggagccccgc cgcgccttc 240
 cggtggactc cccgggactc tgaactctga ccaggcgagg gacttcgacc ttcccttgaa 300
 agagcg 306

<210> 14090
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-G9

 <400> 14090

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 cccagagccc aagacaccca agcagcaacc acgccatggt ggcaagcgaa gccggccaat 120
 ttccataagc ctctccacat cccctccctc ccattctgag ctctgggcag gtccagcatt 180
 ctccaactct ccaccaccta gtctgcttcc catccccaaa ttctcgctcc gccagaagcg 240
 cagcatctct ctcgagctgc caccggttga acgccctgat gatgtggtgg tcaggctgca 300
 ttctaaatca gcaccttcat cccagttga gggatatggg tatgacttct tcaatgacga 360
 tgcaatcgct agtgcgatag caacggagaa tctgaggagg attctccagc tggata 416

<210> 14091
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-H1

<400> 14091

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at ttggaggg aagaaggata aagatgagaa tggcgatgaa gcgccatcga aagcagggat 120

ttttggaaac atgcaaaatc tctatgaaac tgttaagaag gcccaaatgg ttgtccaagt 180

tgaggctgtc cgggtgcaga aggagcttgc agcgtatgca tttatatcat taatttatct 240

atctcttgtc gatgcaaaat agccagcctg tgcgattttt ttctcctatt tttaagactg 300

<210> 14092

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-H11

<400> 14092

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gcccggaaaa tccgaggcct ggtgtcatca taaatcatcc ccagggtggc gacgtctatg 180

ctggggtgcc aaaggattac actgtgcgag aggtcaacgt cgacaatctc ttcgctgttc 240

tgcttgcaa cataactgct ctcaggggtg ggagcggcaa ggttgtggac agtggcccca 300

atgatcatat atttggtttc tacagtgacc atgnggtcc tgggtgcctt gggatgccta 360

cgtatccata tctctatg 378

<210> 14093

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-H3

<400> 14093

gtacaaccct gataagattg ccttcgttcc catttctggt tttagaggcg acaacatgat 60

tgagagggtcc accaaccctg actggtacaa aggcccaacc ctgcttgagg ctcttgacca 120

gatcaccgag cccaagagge ctteggacaa gccctgcgt ctgccctcc aggatgtgta 180

caagattggt ggtattggaa ctgtaccggt tggctcgtgtg gagactggtg tcatcaagcc 240
 tggatatgga gtcacctttg gtccaactgg cctgactact gaggtgaagt ctgttgagat 300
 gcaccatgag gcgcttcagg aggctcttcc gggcgacaat gttggcttca acgtgaagaa 360
 cgtngctgtc aaggatc 377

<210> 14094
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-H5

<400> 14094

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 ttcaaaagaa ccagcggcgg tgctctctgg tcaggcgcgg acggtccgcg gcacagagcc 120
 ggacggtccg cgacctggcg cgaggcggcg gtgctccctg gtcagacgcg gacggtccgc 180
 ggacagggc cgacggtcc gcgacctggt gcaggagcta ggatccctg cctgacggcc 240
 ggacggttcg cgcgtgcgta ggggcggcgg aagatcacgc gcggctcctg aatctcgctc 300
 ccgggagggg ccccgtttgg gaggagagat cctaggagtt gtctaggctc gggcagaccg 360
 acctagactn ctctaatacga cgt 383

<210> 14095
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-H6

<400> 14095

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 tggctgatca ggaggcccca gttgcagttg aggcaccaac ccagttctt ggagagccaa 120
 tggacttgat gactgcgctg cagctggtga tgaagaagtc aagtgctcat gatggacttg 180
 tgaaaggtct tcgcgaggct gccaaagcca ttgagaagca tgctgctcag ctttgcgttc 240
 ttgctgagga ctgtgaccag ccagattatg tcaagctggt gaaggcgctc tgtgctgaac 300

acaatgttca ccttgtcact gttcctgctg ctaagactct tggcgagtgg gctgggcttt 360
gcaagattga ctccgagggg caagcaagga aggttgtang ctgcttctgt gtcgttgtca 420
aggactacgg tgaagaatct 440

<210> 14096
<211> 404
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-H9
<400> 14096

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ccgcatgagc ggcggcgggc ggcggcgga ggtcgtaccc cacatcggcg agcggcgggc 120
gcaccgtcgg aggcaaaggc aagatgttcg ggcgcgcgcc gaagaagagc gacaacacca 180
agtactacga gatcctcggn gtgcccagt cggcgtccca ggacgacctc aagaaggcct 240
accgcaaggc tgctatcaag aaccaccccg acaagggcgg tgaccccgag aagttcaagg 300
agctcgaca agcctatgag gttttgagt atccagagaa acgtgagatt tatgatcagt 360
atggtgaaga tccccttaag gaaggaatgg gcggtggagg atcc 404

<210> 14097
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-G2
<400> 14097

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tctctctcgc gtcggccgcc gcggttgccg gcgacgtcga cgcggaggac ccgctgatcc 120
ggcaggtggt tcccggtgga gatgacaacg atctggagct gaacgcggag tcccacttcc 180
tgagcttcgt gcagcgggtc ggcaagtcct acaaggacgc cgacgagcac gcgtaccggc 240
tgtccgtttt caaggccaac ctgcgccgcg cgcccgga ccagctgctg gacccgtcgg 300
cggagcacgg cgtcactaag ttctccgacc tcacgccggc agagttccgg cggacctacc 360
tcggactccg caagtcccgg cgcgctctcc ttagagaact ccgggagtcg gcgcacgagg 420

cgccccgtgct cccacccgat g

441

<210> 14098

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E9

<400> 14098

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ggattgtagt gaactaaata atgattcctg tgggaaaact tcagcccttt gcatgaaatt 120
gaatcggcct gcacttaatg ttacacaagc cacatctgta cctgaccgat tatcttcgtc 180
tttggagaaa gccagtgaat atgtggccgc aagtgggtgc aaagagacaa aaacatttgg 240
ctcagctgtt tgtgatgttg acagaagtgc agaaccaatt gaccgttcaa acaacaatgt 300
gacgagcaac acaatgcgac atagtgcgac tattgtagtg gattcagtga acaatgtggg 360
ggatacagca agcaactctt cactggctac taaatcatcc agtatacaat c 411

<210> 14099

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-F10

<400> 14099

gccttcccct ccggcggcag gtctctctga atgggggggc tccggcaatg gcggctctgg 60
ctccatccaa gattctgggc accaagctca acttcgccg ctcctccgc tacgccaccg 120
cagcgcacac cgcgggggct cagaagatcg tctccctctt cagcaagaag cctgcccaga 180
agcccaagcc ctctgcggtg tcgtctctct ctcggacat cagcgacgag ctgcgcaagt 240
ggtacggtcc tgacaggagg atctacctgc cggatgggct cttggaccgc tcggaggtac 300
cggagtacct caccggagag gtccctggag actatggcta cgaccctttt ggcttgggca 360
agaagccaga ggacttcgcc aagtaccagg cctacgagct gat 403

<210> 14100

<211> 314

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-F11

 <400> 14100

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 ggaggcgtcg gccatgacgg ggaaggcgaa gccgaagaag cacacggcga aggagatcgc 120
 cgcaagatc gacgcggcga cgacgaaccg gggcgggcgc aaggtcgggc aggcggatcg 180
 gctagggcag gacaagggcg ggcacgcgaa gctggcggtc ccgctctgcc gcaccccgcc 240
 gcccgacatc aagtccatgc agatccacca cgaggcgcg ccatccaagc ttcctttcga 300
 gccggaaaag ctgc 314

<210> 14101
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-F2

 <400> 14101

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 accaccacca caaccagccg gctcccccg cgtcggggcc caaccaggtg ttcaagatct 120
 tctgccgcgc caacgagaac tactgcctgg ccgtccgcga cggcgccgtc gtgctggccc 180
 cgggtcaaccc caaggacgac caccagcact ggtacaagga catgcgcttc agcaccggg 240
 tcaaggacga ggaaggcatg ccggcggttc cgctcgtcaa caaggccacg gggctcgcca 300
 tcaagcactc cctcgccag tcccacccg tcaagctcgc gcctttcaac ccggaccagg 360
 aggacgcgtc ggtgctgtgg acggaaagca aggacgtggg caagggttc cgctgcatcc 420
 gcatgggtcaa caacaccc 438

<210> 14102
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-F3

<400> 14102

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cgcgtagccg gcgaggagct caagccggcg tacatggtca tctctctgcc gcctaaagcg 180

gggccccggt tcgaattcct cgtcaaaagc gtgccgggag ctaccgcggg gcgggtctgc 240

gccctccgag acgggggatgt tgtggagctc ggcgcgctca cgggggaggg gtteccctc 300

gacaggataa atccgcccga cgtcgcgcag accgtgctca tcttcgcggc ggngacgggg 360

atcagtgcga ttgatcact tatcgagttc ggtttcgctg gcaaagaaag agctgatgtg 420

aggctttatt at 432

<210> 14103

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-F4

<400> 14103

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cctgcagtg gtgcacctcg cctggctggt tcagcatcgt gcagccatga agctctgccc 120

tcgccaaagt cctctgggta taccttggtc tccagctcgc cagaccgcgg tcgtccttgc 180

tctcgggtg gcgcgcgaca gcttctgcta tccatagccg ccgtcgaagc tcccatggcg 240

ccgttcttcc ctgaagctcc cctgcaccgc gtctctctct ctctggtctc cttccagccg 300

tgaagtcccc tgcgcgcctg cgccatgccg atctccagc gtcgcgcgct gcggcgctcc 360

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<210> 14104

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-F5

<400> 14104

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tagaagaagc accagtgcct gatcgatggc ggcccaggct ctcctctccg gccggcagct 120
 gctggggccgc cccgtgcagt cggccgtctc taggtcgtcg gcgaggaagg cgcccttcgt 180
 cgtcagggcc agctccagcc ctccagccaa gcaagggtgcc gacaggcagc tgtgggttcgc 240
 gtccaagcag tccctctcct acctcgatgg cacgctgccc ggcgactatg gcttcgaccc 300
 gctgggcctc tcggaccccg agggcaccgg gggcttcacg gagcccaagt ggctggccta 360
 cggcgagggtg atcaac 376

<210> 14105
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-F6

<400> 14105

gcaaaaacct gcaggcaagc tagctagcca cgcgcacgca gatcagcaga tgaagctgtt 60
 cgcccttcgtg aggcgcgcgc gccggccgcc gccgacggcg cccgacgacg acacagccac 120
 agccgcccgc gctgcgacca cggagaagcg gcgccggagg ctgtcctcgt cttcgtcgtc 180
 ggggtcggcg tggaagccga cgctgggcgc catctccgag gacgccgcca tgacgtccgc 240
 gcccgtagcg caggcgaagg cagcagcggc gccggccagg gccaaggcga ggtagcctcg 300
 ccgtgccacc cgggcggccg gctacgacga cttccggcac tacggccacc cgacggtgct 360
 gccggccttc acgccgacgg cgttcctgtt ctgagcgggt gcgaaccgca ggcaacgc 418

<210> 14106
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-F7

<400> 14106

ctcaactcaa tacactcacc tacatataca cacatagaca aatatatcct ggctcagtca 60
 ccaccaacag aaccagccta ctccatcacc ataccacccc aaccacttat tcaacatctt 120
 ctgccgcacc aactacaact actcctctc catcctctac t 161

<210> 14107
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-F9

<400> 14107

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 agcctccgcg gccacgcgcc acctggtggc cgccgcccgt tccgcctggg cgccgtcggc 120
 gaagccgcg cagctaagct cacagctcgc gctgccgccc tcgtcctccc gcgcgccggc 180
 cccgctccgc gcgaccgcgc gggaggcggt gaccgaggag gcgccaagg ggttcgtggc 240
 cccgcagctg gacccagca cgccgtcccc gatcttcggc ggcagcacgg gcgggctgct 300
 ccgcaaggc 309

<210> 14108
 <211> 393
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-G1

<400> 14108

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 ttcatatagg cgggtaggcg tccgaggcct cgtttgttct cggcttcttg tctccaaggg 180
 tgctactccg tccgcgcttg gtctgtcttc gtccttcggc aggcgcggc gcaacatggc 240
 gaagatcaag ccgaaggcct tgctcgcgca aagcaagggt aagaagggtc ccggccaaat 300
 cagcgtggcc acgatcgtca cctacatgat cctcggcgtc ctggtcgtgt cctccgttta 360
 cgctggctac aggtactgct gngcagtcac agg 393

<210> 14109
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G11

<400> 14109

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actaggactg catccataca gactagtagc agctcatatt acctttcaaa cagcttaacg 120
acagtctcac gcttgctcac tacatcatcc acaatcagag caccctccac cttgtgctcc 180
gtctcatttt aggcattgcag atctttgtga aaaccctgac ctgctagact atcacct 238

<210> 14110

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-C8

<400> 14110

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gcctgacctg accacgagag caacatgggc ggaggacacg acatgcacgg gcagcactac 120
ggccacaacg gcggcgtgaa gggcttcgtg tccaacctcg tccacggcgg cggcggccat 180
ggccatggaa gcggctacgg ccatggccat ggaaacggct actgccatgg gaatggcggc 240
tacagcggca gccacgggta ccctactccc gccgccgccc gcacgtactc tcattcgcac 300
ggcgcgtacc ctaccccgca cggtgccac gggtagcttc ctacagccaa ctaccccgcg 360
cactcggcgc actacgggca cacggagtcg taccacacca gccacaacag c 411

<210> 14111

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-D1

<400> 14111

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tgacctgacc acgagagcaa catgggcgga ggacacgaca tgcacgggca gcactacggc 120
cacaacggcg gcgtgaaggg cttcgtgtcc aacctcgtcc acggcggcgg cggccatggc 180
catggaagcg gctacggcca tggccatgga aacggctacg gccatgggaa tggcggctac 240
ggcggcggcc acgggtaccc tntccccgcc ggcgccggcg cgtaccctca tccgcacggg 300

gcgtaccctc acccgcacgg cggccacggg tacccttctt ccggcaccta ccccgcgcac 360
tcggcgcaact acgggcaca 379

<210> 14112
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D11

<400> 14112

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tgggtggcgt gaccggcgcg gccgtctctt tggccttctt cttcttcttc cctggcgggc 180
gcaaaggcaa agggttcggg ttcgcgttcc cgtcggcttc atgccggcaa cttcacattc 240
cgcgggcgga ccggcgggcg cgcgcgcgtg 270

<210> 14113
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D2

<400> 14113

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gagcgagagc agcacacacg cagctagcta ggagcagcag cagagcagcg gcgatggcgg 120
cctccatgat ctctctgtca gctctggcgg tggcgctca gggcctgccg cccctcggcc 180
gccgcgcctc ctcttctgcc gtcgtctgct ccaagaagaa gatcaagacc gacaagccct 240
acgggatttg ggggtggcctg accgtcgacg tcgacaccaa cgggagaaaag ggcaagggca 300
agggcggtgta ccaagtctgc gacaagtaca gcgcgaacgt ctaccgatac aggccaatct 360
acaacgagga tga 373

<210> 14114
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D3

<400> 14114

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ggcacggcca ccgggagtag ctctggccat gaggacctca acggctacct gtgctatcct 120
ccctccgcct acctgctcct cccgtagttt accgctccgc agcttcatcg gtctccgggtg 180
gtccgcccc cgtttccagg ttagggagcg agctgggtgcg tccgtagcgg ttgtcaatgg 240
caagccggga tgcagcttca gactcggagt acctacttta aatgtttgtc aatctcgcca 300
aaggctctgtt gtcattagaa atgaacatgc tcaaatgct gaccttcac gaaaatatc 360
aaaaagagag aagaaacat ttcctatccc agtgctggag tt 402

<210> 14115

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D5

<400> 14115

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ccccatcctt tctccattcc cagatcgaag gtccataaaa aaccatcctt ttgcatctga 120
ttgagcactg tctttgtgca agagaacaat ttagttgtac atacaaacaa aaagaagtgg 180
gagtattttt cagagtttat tagaagagac tgtttcgagg acccaggtca gagaaaggcg 240
agaagcttta gcagcggcaa tgggtctggtc aatggaccgc caggtgaccg tccacggcga 300
ctgggtgtca gccgtgggtgc cgctgatgaa gctgctgtgc ctggcggtga tcggcctgct 360
cctcgccaac ccgcggtcc aggtcgtgcc ca 392

<210> 14116

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D9

<400> 14116

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ctgcacactc gtctactacc gagaccgtcg gcggccatcg tcgcacacgc tgtgctcatg 120
ctaagtgtcg aggetcacac gtactactac taccgcaccg cgaggccgag accgaagcta 180
tgcgcttgca aaaacgtctt gcacgaaacc cgcccgcgtg acacagaggc aaatccctgt 240
cgtcacggcg agaggaagag cacgagaaag ggcgacagtg cttattacat cga 293

<210> 14117
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-E10

<400> 14117

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aagcccaaac agcggttgct gaaggcccat cagagggagg aggccatgga gatgagcgac 120
ctggacctgt ggaagcacga gaagccgcca aggatctgcc ccttgcccc gtcgctcccg 180
ccgncgncgt cagcgttcga cgaagcggcg ctctgtccgt cgctcaactt cgccgtggtc 240
gacgacggca tcttccgctc cggattccca gggaccgtca acttccggtt cctcaagtcc 300
ctcaaccttc gctccatcgt gtacctgtgc ccggagccgt acccgngac gaacacggag 360
ttcctagaaa agaatgggat caggctccca ccagttcgga 400

<210> 14118
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E12

<400> 14118

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gatgcccccg cagcccaaag ccgcccggcg catagctcc gactccggcg cgggacggcg 120
ccagcattgc tcgccg 137

<210> 14119
<211> 429
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E2

<400> 14119

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gtggaagaac cccgctttgg aaagaacat gctgtatgct cctgtccacc aaactgacca 180

ccagcttccg tatcggtatg catcttcagt gcttctctgc agaagaaaca acaactccgg 240

tccagagtct tatattgcgc tgccttcaga tgtacatgga ccagaaagaa gtggtcgatg 300

ccctctgcc a cactcgaag atagagccct gcattactga acttgcttgg cgacaacttg 360

agcatcaaaa tcctctgttt ttcaaggcgt actatatgag actaatgctt aagaatcaaa 420

taatgggtct 429

<210> 14120

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-E4

<400> 14120

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tccaacaacg agtcgtggtg ccagggcctg gacggcctgg cgtcccgcga ggccgcctac 120

taccagcagg gcgcgcggtt cgccaagtgg cgcaccgtcg tcagcatccc taacggcccc 180

tccgagctcg ccgtcaagga ggccgcgtgg gggctcgac gctacgccgc catctcacag 240

gacaacgggc ttgtgccgat cgtggagccg gagatcctgc tggacggcga gcacggcatc 300

gagcgcacgt tcgaggtggc gcataaggtg tgggccgaaa ctttctacgc catggcggag 360

aacaacgtca tggtcgaggg catnctgctg aagccgttca tggtgac 407

<210> 14121

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E5

<400> 14121

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gtgaagctga tgaagcgctt gatactgtca ctggagacat tgtattcgtc ctccagcaga 120

aggatcactc caaattcaaa agaaaggggtg aagatctctt ctatgagcac accttgtctc 180

tgaccgaagc actatgtggg ttccaatttg ttcttacaca tctggacaac aggcagcttc 240

tcatcaaadc agaccctggt gaagttgtta aacctgacca attcaaggcg attaattgatg 300

aggggatgcc aatttaccag aggcctttca tgaaggggaa gctgtacatc catttcacgg 360

tggagttccc tgactcgttg gcaccagagc agtgcaaggc tctcgagaca gtact 415

<210> 14122

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-C6

<400> 14122

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cggagggcag cggctcgccg cgtgtccgtc gtcgtccgc ggaactcccg ccccgacgct 120

cgctctcagg cccaccccg acggcgtgg ccatggcttc ctgcgcaca ccggcccctc 180

tcctctctcg cgggtgccgg ccgtcgccgc cgaggtcggg ggctcaaca tcgccaacga 240

cgtaaccag ctcatcgga acacaccaat ggtgtatctc aacaacgtcg tcaagggatc 300

tgctgccaat gtcgtgcta agctcgagat tatggagccc tgctgtagcg tgaaggacag 360

gataggtac agtatgataa atgatgctga acagaagggc tngattactc ctggaaa 417

<210> 14123

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-B11

<400> 14123

ggttccttt cctcgagttt cctattttcg tctcctcccc acagcagccc ggcgaagacc 60

ctagtaagca aaccaccgga gcagcggcgc ttgcgcgggc ggagccatgg cggacgacga 120
 ttacaacaaa aattgacatg gggatatgagg atgagccccc agaaccggag attgaggaag 180
 gagctgaaga agagcctgag aacaacgaag atgccctga tgacgtcata ggtggtgagg 240
 gtgaagataa ggaacaggaa aagaccaagc gtgaacgcaa aacaacaaaa tacatgacga 300
 agtacgaacg tgcgcgcata ctgggtacac gaggcttgca gataagcatg aatgctccag 360
 tcatggttga gcttgagggg gaaactgacc ctactgagat tgcaatg 407

<210> 14124

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-B12

<400> 14124

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 gagccatcga tcgctagcta gctgacgacc atggcgctcc tctcctctgc cgccatcacc 120
 gcccttctct tcaaggccgc gccgcctcgc gcagtggcca gcaggaggta cttcaccgtg 180
 cgtgcctctc tccgcaaggc cactgccacc gccgcctggg ccgttgccgc cagcgtcctg 240
 cttgccggcg gcggcgccat ggcccaggag gtgctgctgg gcgcaggcga cggcgggctc 300
 gtcttcgagc ccagccagtt caccgtcaag gccggcgaca ccatcacctt caagaacaac 360
 gccggcttcc cgcacaacgt cgtgttcgac gaaga 395

<210> 14125

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-B3

<400> 14125

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 gaggagctcc tcgcatcgga gcagccgccc atcaacctgc gctcgggctc agcgctggaa 120
 ggtgttgga gagaatagcc tgaaggttca cagtaacctt catctgttgg aagatgtatc 180
 gggctaagag ggctgcattg tcaccgaagg tgaagcggcg cgtcggcaag tacgagctcg 240

ggcgcacccat tggggaaggg acctttgccca aggtccggtt tgctaagaac accgaaaacg 300
 gggaacctgt tgctatcaaa atccttgaca aggagaaggt taagaggcac agattggttg 360
 agcagattaa gcgtgaaatt tgcacatga aattagtaag gcaccctatt gtagatcgac 420
 tgtttgaggt gatgggaaag taaa 444

<210> 14126
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-B4

<400> 14126

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 cagctccggc ggcgacctgt tctccagcgg caagctggtg gcgggggccc cctgtgctggt 120
 gttccagcag aagagcgtgg agaacgtcga caagcaggag gtcgccggcg cggcggccga 180
 gtcctgcac gcggcgctccg cgtacggtaa gtcgacgac aagccggccg ggcagtacgt 240
 cgagaaggcc gaggggtact tgaaggagtt cagcgcgggc gcgggacacg ccaccgagca 300
 ggagcagcct gcggcggcag caggcgacga cgcggcgccc 340

<210> 14127
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-B5

<400> 14127

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 tgcgtagatc gatccatcgg gcgctagcta gctgacgacc atggcgctccc tctactctgc 120
 cgccatcacc gccccttcc tcaaggccga gcccgctcgc gcagtggtea ccaggaggta 180
 cttcaccgtg cgtgcctctc tccgcaaggc cactgccacc gccgacgtgg ccgttgccgc 240
 cagcgtcctg cttgccagcg gcggcgccat ggcccaggac gtgctgctgg gcgcatgcca 300
 cggcgggctc gtcttcgagc ccaaccagtt caccgtcaag gccggcgaca ccatcacctt 360
 caagaacaac gccggcttcc cgcacaacg 389

<210> 14128
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-B8

<400> 14128

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aagagagtcc tttctaggtg agtaggtgtc ctcttacgcg tgggtgagag aaccactag 120
gagccacagc cacctcacag tctgttctcc tggtggatcg ggaggagcag agccgacgcg 180
acgggatcaa gatttgtatt tgaaccgga cgacgggagg agtacgaggc ccagtcattg 240
aggaggagaa gcaagtgatg gaggggtgccg ctacggcgcc gaggcggcgg ctggtgatcg 300
gggtggggtt ctgggtgcag ggcttccggc tcttcccggt gctgggcgtc aatttcttcc 360
tcagggacgg catgggcgtt gctgcctcct cgctgc 396

<210> 14129
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-B9

<400> 14129

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aatctatgct ttgcttgga ttcctctgtc atatttgata tggtagaggc cactctaccg 120
tgcaatgagg actaacagtg ctttcagttt tggatggttt ttcctgtgtt acctgatcca 180
cattggtttt tgcataattg ctgccattgc tccaccaatt gtatttcatt ggaaatcatt 240
aactggtatt ctggctgcga ttgacacttt ctctgaacat gtgataattg ggatctttta 300
ctttgtgggg tttgcaactgt tttgtctgga gacactgctg agcattgggg ttcttcagaa 360
agtgtagatg tacttcagag ggaacaagtg aagccagtca tgatg 405

<210> 14130
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-C1

<400> 14130

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tagaagaagc accagtgcct gatcgatggc ggcccaggct ctctctctcg gccggcagct 120
gctggggccgc cccgtgcagt cggccgtctc taggtcgctc gcgaggaagg cgcccttcgt 180
cgtcagggcc agctccagcc ctccagccaa gcaagggtgc gacaggcagc tgtggttcgc 240
gtccaagcag tccctctcct acctcgatgg cagctgccc ggcgactatg gcttcgaccc 300
gctgggcctc tcggaccggg agggcaccgg gggcttcac gagcccaagt ggctggccta 360
tggcgaggtg atcaacggcc gctacgcat gct 393

<210> 14131

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-C2

<400> 14131

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cttactacca ggaggtggac tactgctcgg aggaggtgag gtcggtggcc ccggccggct 120
tcggccgcca cggaggcggc gtccagcagc acgtcgtcaa ggagaagtgc gaggaggtcg 180
acacggtctc acgcgcgggc gcccaaccacc accaccacca ccatggtcac cacggcggcc 240
acggcttcgt ggtgcgcgag accagggtcg aggaggacat caacacctgc accggcgagg 300
tccacgagcg caggagagag ttctcgcca gggctaactg agccgcccgg cggccggcat 360
ccacgcccgt tcgtgectgc ctgctgcct tatgtatgtc t 401

<210> 14132

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-C3

<400> 14132

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agtaaaggga gataacttgcc gcgttgggat tctccaactc caaccaagac gaacgatttc 120
atcccactaa tcctttttct tttcttttcg tttttatttt taattttcttg gttcgggttct 180
tgatcacctg ttcttccetta tgaccttata caggaaatta gattatcagg tgcttctatt 240
tgtttgatgca tctcttggtt gcgcctgcga tctggacctt ttttggtcc tcaacaaaag 300
agaagatgag nccttctngt tggtagttac aaccggtggc gtctctggtt gtgcagggtgc 360
atattgtgtg aggatc 376

<210> 14133
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-C4
<400> 14133

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aggtgcacga gctgcggggg aagagcaagg cggatctgca agcgcagctt aaggagttta 120
agtcggagct ctccctgcta cgcgtagcca aggtcaccgg cggggctccc aacaagctct 180
ccaagatcaa ggttggtgcgc acctccatcg cgcgcgtgct gaccgtcatc tcgcagaagc 240
agaagtcggc gctgcgtgag gcgtacaaga agaagaagct gctcccgtc gacctccgcc 300
ccaagaagac ccgcgccatc cgcaggcgcc tcaccaagca ccagctctcc ttgaagaccg 360
agagggaaaa gaagcgtgag aagtatttcc ccatgaggaa gtacgctatc aaggcctaga 420
tcagtgaag aacatt 436

<210> 14134
<211> 284
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-C5
<400> 14134

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caccatggcc ctctcctcca cggccttcgc cggcaaggcc gtgaacgtgc cgtcgtcgtc 120
cgccttcggc gaggcctgcg tgacgattcg caagacttcg gctaaggcca tgccggccgc 180

agcattcttc actatttacc gtgttttctt tgtttattgt ataagatcgg agcttgtcgt 240
catcgctttc ccgaacgcac ttgatgctgt tactgtctgt tatc 284

<210> 14135
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-H3

<400> 14135

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gctgtagact ggtgagggtta tgtcagtgtt aagggccctt tggtagcgcc tccctctcct 120
agttggcgac gaacagtttg ccacttcttc cacaagctcg aggacggtca atgaccttgc 180
tgtctcctcc ttgaggaagg cacgtcgagc ttgatctatg gcgtgcttgg tctccacttc 240
gagctgcttg gtgacagcct cacattccag cttttccttg gctgcggtgg cgatctcggt 300
tttggaacct cettgcttca tgttgcccag gcagacgtcg accttggcaa ggtgctcttg 360
caccttgtcc atgtgcttgg tgagatcagc agcgagggtc tcgagccact ccatttctgt 420
ggacatgggtg g 431

<210> 14136
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-H4

<400> 14136

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taatattctgt atagagaaat cgctctgtct catcactatc t 101

<210> 14137
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-H5

<400> 14137

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tttcaggcgg gtacggggacc tggggcggcg cttcaatctc gtccgcggga aggttgagac 180
ggcgggggct ggaggtggtg tgcgaggcca cgaccgggcg gcgccgggac tcggttaaga 240
agagggagcg ccagaacgac aagcaccgca tccgcaatca cgcgcgcaag gccgagatgc 300
gcactaggat gaaaaaggtc ttaagagctc ttgaaaagct taggaagaaa cctgacgcgc 360
agcctgaaga aataattgag atagagaagc tgatcgctga ggcatacaaa gccatcg 417

<210> 14138
<211> 406
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-H6
<400> 14138

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tgtttcttaa attctcagac atatatccac gagcattcgt cattcaaagc agacacatat 120
acatacaact ctatgcttga agcatctgcc tctgcccac agtgggaata ctctgaatat 180
gtgtatagag agatggctct gtctcatcac tgtctagatc aaagcanata ttcatggttg 240
ctcatcaagg catgcagagc tgganagcca tatttgctgg agcatgcact tgactcgata 300
ctngaaagag gagagatccc tgatgtacag ttgattactg aatcgatatg ccagtctatt 360
gctcatagag attatggaag gacgctgcag ctcttgaata taatga 406

<210> 14139
<211> 439
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-H7
<400> 14139

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tccttccttc ccaagaagtc cgaatggggc gccaccaggc aggccgccgc gccaggcccg 120

cccaccgtct ccatggctgt ccgcgcctcc gcctacgccg atgagctcgt gaagaccgcg 180
 aaaacgatcg cgtcgccggg gcggggcacg ctggcgatgg acgagtcgaa cgcgacgtgc 240
 gggaagcggc tggcgcccat cgggctggag aacacggagg ccaaccggca ggcgtaccgc 300
 acgctgctgg tcacggcgcc gggcctgggc cagtacatct ccggcgccat ccttttcgag 360
 gagacgctgt accagtccgn cgtcgacggc cgcaagatcg tggacatcct ggtggagcag 420
 ggcacgtgc cggggatca 439

<210> 14140
 <211> 156
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-H8

<400> 14140

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 ttttgaaaaa gaaaaaaaaa agaaaaaagc ttgactggat ataccagaac acaaggtagt 120
 atgttccagc tgggaataaa aaaagcagcc gcaatg 156

<210> 14141
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-A11

<400> 14141

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 gggcctcctc ccaccgacat ccaaagacaa gtcccagctg gacataccgc tagacgggct 120
 cacaccacta cgcctaagag acatggtgtt ctgcgccact actacacatg cgaacatgac 180
 agagtgccta aaatgcctgg tcgacgcaac gaggagtgtt tccggcgtca tattcaacac 240
 cttccgagac ctggaggact ccgacctcca gaggatcgcc aatggcgtcg tcggagtgcc 300
 gatctatcct gtcggccccc tccacaagat ctctccatgc accgaggaca gcttactggc 360
 gccggaccgg gcgtgtctag agtggctgga caagcaag 398

<210> 14142
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-A2

 <400> 14142

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 tcctcctcct tgccccgccc ctgcgcggcg cgtggggaaa ggagggccac atcatggtct 120
 gcaagatcgc cgagaagtac ctgtcggaga aggcggcggc ggcggtgcat gcgctgctgc 180
 cggagtcggc gggcggcgag ctgtcgactg tgtgcccggtg ggcgaccag gtgcgctggc 240
 actaccactg ggccagcccc ctccactacg ccaacacccg tcaagtctgc aacttcaagt 300
 attctcggga ctgccacaat tctcgtggcc agcaagggat gtgcgtcgtc ggggctatca 360
 acaactacac ggacc 375

<210> 14143
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-A3

 <400> 14143

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 acggccttcg ccggcaaggc cgtgaacgtg ccgtcgtcgt ccgccttcgg cgaggcccg 180
 gtgacgatgc gcaagacggc ggcgaaggcc aagccagcgg cggcgtccgg gagcccgtgg 240
 tacggccccg accgcgtgct gtacctgggc cactgtccg gcgagccacc gagctacctg 300
 acgggcgagt tcccgggcga ctacggctgg gacaccgcgg ggctgtcggc ggacccggag 360
 acgttcgcca agaaccggga gctggaggtg atccactccc gctgggccat gctgggcgcg 420
 c 421

<210> 14144
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-A4

<400> 14144

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tagggacaag aagagcagag atatacagga gcgagcagag gcggggagaa gaggatgagc 120
accacaacgg cgctcgtegt gaaccccaac gcgcgcgtct tcatcccggc ggcgtaccgg 180
caggtggagg acttctcgcc cgagtgggtg gagctcgtca acaccaccgc ctggttccgg 240
gaccactgct tccggcagcg ccagctccac gaggccgnc tgcgacgacgt cgcgcgctc 300
cttcccgcag acctcctcga caccaacgac ctcttctacg cgcccg 346

<210> 14145
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-F3

<400> 14145

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caacacaaca taactcatcc aaagtatctc agacgactca ccaaatcacg aaacccaatt 180
ataaaatgca ttcttatatg aacagtgcct aaccgcatag ataatctcac attaaccgt 240
caattttgga tccaattcag catttttctt cccaagtttc tgcaagaaat tgcaataata 300
tcgattcata catatgaaaa aattctctat ttatacaaac gctttaccta cgcgataatc 360
atacacgaat actgaaaaat caaatgaaa taaataaaaa ataa 404

<210> 14146
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-F7

<400> 14146

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 cgtcagcacc accgtgctct acccgctaga catctgcaag accaagtcc aggccgagct 180
 tcagacgcac cagggcgcgc agaagaaata taggaacctt tcagatgtgt tctgggaagc 240
 gatttgtaaa aggcaatctt tgtccctata tcagggcctt aacacgaaga acatccagtc 300
 ttttggttcc tcgttttttt atttttatgg gtatagctat tttaaaagac tctacctgga 360
 gaagagtgga gcanagtcta ttggaacaac agcccaatct gttagtgcga gct 413

<210> 14147
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-G1

<400> 14147

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 gccagtcctc tcgttttctc accgcgatcc gcctcgttc catccgatcc gattcgggag 120
 ctagaggaga gagaggagag gagaggcagt gatgccgctg gctgagtcgc ccccgtaggc 180
 ccgcaaggcc acagatttct tctccacgtc cagtgtcaag ctgaagcagg caggccaatc 240
 ggccggggat aatatagttg atgttgctgg gaaggttggg tccgtggtga agagtcgggtg 300
 ggctgtcttc caagaggcta ggcagcagca gcagcagcag caacgtccgc cgcagtagac 360
 agtgcaagag cgtatcatca ct 382

<210> 14148
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-G2

<400> 14148

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 gcgcacgcgc agcgactgcc ggcgatggcg agcctcacc tgccgccggc gcccccaac 120
 ccacgccagg acgccatcga cctccacaag gccttcaaag ggtttgatg tgacagtaca 180

acagtgataa acatacttac tcatcgcat tcggtgcagc gtggactcat tcaacaggaa 240
 tacagggcta tgtatcatga ggaactctcc caccgtatct catctgaact cagtggaaac 300
 cacaagaaag ctatgtcgct gtggattctt gatcctgctg gacgtgatgc aactgttttg 360
 agagaagctc taaatgggta cactatggat ctgagagcag ccactgagat tatatgttcc 420
 aggacaccat cacag 435

<210> 14149
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-G3

<400> 14149

ggttcccttt cctcgagttt cctattttcg tctcctcccc acagcagccc ggcgaagacg 60
 gtagtaagca aaccaccgga gcagcggcgc ttgcgcgggc ggagccatgg cggacgacga 120
 ttacaacaaa aattgacatg ggggtatgagg atgagcccc agaaccggag attgaggaag 180
 gagctgaaga agagcctgag aacaacgaag atgcccctga tgacgtcata ggtggtgagg 240
 gtgaagataa ggaacaggaa aagaccaagc gtgaacgcaa aacaacaaaa tacatgacga 300
 agtacgaacg tgcgcgcac ctgngtacac gagccttgca gataagcatg aatgctccag 360
 tcatggttga gcttgagggt gaaactgacc ctcttgagat tgcaatgaag gagctgagag 420
 cgcgcaagat accct 435

<210> 14150
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-G4

<400> 14150

cgcgaggcgg ccgacatgat caagaagggc aagatgtgcg tgctgttcat caacgagctg 60
 gacgccggcg cgggtgcggat gggcggcacg acgcagtaca cggatgaacaa ccagatgggtg 120
 aacgcgacgc tgatgaacat cgccgacaac cccaccaacg tgcagctccc ggggatgtac 180
 aacaaggagg agaacccccg cgtgcccac atcgtgacgg gcaacgactt ctcgacgctg 240

tacgcgccgc tgatccgcga cggggcgcag gacaagttct actgtgctcc caccgcgcag 300
gaccgcgtgg gcgtgtgcaa gggcatcttc cgcagcgacg gcgtccccga cgaggacgtg 360
gtgaggctgg tggacgcctt cccggggccag tccatcgact tcttcggcgc ctttcgcgcc 420
aggggtgtacg acga 434

<210> 14151
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-G5

<400> 14151

ctttctcatt ccacctcctt ctcaatcacc tctatcttca acaccacat actctacca 60
ctatacatct tctataccaa catccaatcc caacttcaca cacaaccatt ctcacacaat 120
aaatctacta accttccaca tattttctat taatctatat ttaaaacaca attatactcc 180
ctatatcctc accttaacac taacaacatc cattcttate tttctacat tccttattca 240
tatactata catat 255

<210> 14152
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-G7

<400> 14152

gcgtagtgcg gagctccagt gaaggaacca aacagcgcaa cacacgaaca caccaggcgg 60
caggctccac cccgtccttt tctgctctt tcccccgtc gagttaatcc atccagtcgc 120
caaaagcttt gctaaatttc acgtgtctcg cctcgagtcg tcctaatacc gacgatgcct 180
tgttctactc ctaaaaaaac ccaaagatcc tgactttctc ttgctgctag cctccctttt 240
cccttctccc ttaatgcac tggtggaagc tcttcgctgt cacccccacc cacctccggc 300
gctctttttt agcattttcc ttgggctctg gactccaaaa tcccagcctt ttgtttgctt 360
ctctgtctcc tgctgattgg tgtcnccggg tccaggactc ttgatttgct cctcgcgggg 420

ttcgggtccca t

431

<210> 14153
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-G8

<400> 14153

accaaagcca tcggaggagc aactggacga ccatggcctc gccgctgctc aagtcgcact 60
ctcagctcgc cgccgcccgc gccctgcact ccgtgaggag agccgaccgc tgcctcgcga 120
cactacacct gggcaagttc catgaccacg ggctcaggtc cggccgttct aagagatccg 180
gttcagcgag ggtgggcgcc ttcccgctgc tggacgtggt gccgctgatg gtgacgatgg 240
tggagcacgt ggacatgtcg cgggactacg tcgtgaccaa gtccatctgg catctcagcg 300
acgtagccct caagagcgtc tataccttct acgccatgtt caccgtctgg ggagtctgct 360
tcttcgcgct catgaaggat cccttctacg acagcgagac gtacaggagc cagngtggcg 420
acgggaccgt gcactgggtac ta 442

<210> 14154
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-H1

<400> 14154

ccggctgcga gcgccacgcg tctcgggtga gcgtctcgcg taccggcttc cggctcatca 60
ctttcctctc gggtgctgtc tcttcacgca tcggcnaggt tcatcncctt catgcctcgt 120
catctggagc ctgcgtcggc cctaccagct cgcattgtac ccccgcccc gccgtgtctg 180
ttccctgggt cgtcattcaa gcgccaggt cgagccatcg ccccgcttgg gaaatggcag 240
ccaaggctca tcnenncgte tcgaacctcc atccagcttc ctcacaattc cttgtnttc 300
cttggcgctc tcgccaaagg gcccctctc cttcaaattc t 341

<210> 14155

<211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-F1

 <400> 14155

 cctacaccat tctctcccta actctccttt ccattcacct cccctccccc tcccatcact 60
 tatectttct ccatccataa ccccatatcc attccccaca ccaccaatcc aatctcttct 120
 ccacataaca tactcccact cctctactcc cctcctcctt aactactttt cactcatata 180
 tcttatcaat ttttatctct tctaaccttc ttctcccatc t 221

<210> 14156
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-D12

 <400> 14156

 caggacctgt cactccgtct gtccatcgac ggtgagaaga gtcgctgaa cactaaggat 60
 gcactgtggt tcgaccccca ggatcaagtg cagaagatca tgaacaacat caagcagtcg 120
 tcagcgtctc ctccgtccat gtcctcagtc gcagccgagg gcacaggcag caccatgaac 180
 aaatacccac tcttgccgcg gcgcccggcg ttgttcgtca tagctgtgga ctgctaccag 240
 gacgatggcc gtgctagcaa gaagatgctg caggatgatcc aagaagtttt cagagcagtc 300
 cgatcggact tccagatggt caagatctca ggggtcacgc tgt 343

<210> 14157
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-D2

 <400> 14157

 gtcctgactt tgccatctct ctccctgtct ctttctctct ctctctctct ctctctgtcg 60
 ctctccaatc ttctttctct ttctttgatc accagccagg ccaaccgcag atataactcc 120
 ttccgattct cccctccgtg gactccgctt gattcgacaa aagtatatga cactcgacg 180

atcacaagaa gtagcagatt gctagctagg aacttggtgt ctccggccgt gctccatttg 240
atcgtgaaag aacacagctg caacaccgtg gctttccgtt tgcttgatcg tctcccaatg 300
ctgcgaagga acctaccgaa tctctccctc cagataagcc cgccaccegc cgcggcatct 360
gacgcaccgg cgacgtattc cgaaggaagc gacgaggtag ggttcttcgc aaaccctagc 420
tccggcgcg 430

<210> 14158
<211> 338
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-D3

<400> 14158

cccactctac ccactcatcc aatccttctt ctccatcatt atcctttctt ttccactcat 60
tctctctctc tctctgtcgg tctcctatca tctttcccat cctctaata ccaaacatac 120
caaccatcat aaataacctc tccccaatct acatttccat cactacaatt aattcctcta 180
aacattatta ccactcaacc atcacatcaa atcccaacat ccatactctt aacctcatta 240
atctcatcaa tcttcatttc atcatcaatt aacacatcta cctcacccca tctacnactc 300
tccttcatcc tcttaccatt ctttcaacta acactacc 338

<210> 14159
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-D6

<400> 14159

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gagtgatcga gctagctgag ctccgatcct cgctagctag gataccgcca taccacaagt 120
cttcttcaca agtttaggag tgacagcaac aagagatcga tggcctctgc caccgtgctc 180
aagtctctct tctttcccaa gaagtccgaa tggggcgcca ccaggcaggc cgccgcgccc 240
aggccgcccc ccgtctccat ggtcgtccgc gcctccgcct acgccgatga gctcgtgaag 300

accgcgaaaa cgatcgcgtc gccggggcgg ggcatacctgg cgatggacga gtcgaacgcg 360
acgtgcggga agcggctggc gtccatcggg ctggagaaca cggaggccaa ccggcaggcg 420
taccgnacgc tgctggtcac 440

<210> 14160

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-D7

<400> 14160

cctgtcgttg tgagaattct taattcatga gttgtaggga gggacttatg tcgccggaaa 60
cagaaactaa agcaagtgtt ggatttaaag ctgggtgttaa ggattataaa ttgacttact 120
acaccccgga gtaacgaaacc aaggatactg atatcttggc agcattccga gtaactcctc 180
agctcggggg tccgcctgaa gaagcaggag ctgcagtagc tcgccaatct tctactggta 240
catggacaac tgtttggact gatggactta ccagtcttga tcgttataaa ggacgatgct 300
atcacatcga gcccgttcct ggggaccag atcaatatat ctgttatgta gcttatccat 360
tagacctatt tgaagagggt tctgttacta acatgtttac ttccattgtg ggtaacgtat 420
ttggtttcaa agccttacc 439

<210> 14161

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-D8

<400> 14161

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cgggcagtca gcggcgctca agagtcacga gcttactggt tgtaagcaac gatcgacgaa 120
cgaaggggtg tagggagtgg aagcaagagg ctcagcgctt tgttcatgga gagccgcaag 180
gaggagcagg cggcgggtgg gtggatgacg gtgccggcgt tcggggagtg ggacgtgaag 240
aacggcgccg tgccggacta ctccatggac ttctccaaga tccgcgagat gcgcaagcag 300
aacaggcgcg agctctcccg ggccagcctc ggcgggcgcg acgacgacga cgacgaccta 360

ctccagaaga agcagcagca gcagcaggag gaggaagca aggccag

408

<210> 14162

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-E10

<400> 14162

acggtccgga ttcccgggtg cgcacgcgtc cgtgctgctc caatccgctc ttttatgact 60

cggccagcgg aaggggagag aggaggggga gaggacggtg gagaagggtg acgcggggct 120

ttccgacttc gacgccact tccatcgctt cttcgcttcc ccggacgccg cctccgacgg 180

caagggtgaag ctgctgctct tccctggcga ccgcaagcct gactcctccc tctcctggtg 240

ccccgactgc aacgtggcgg agccggtgat ctacgagcgg ctggaggcac tggagggcaa 300

ggacgcggtg ctctgctgcg cctacgtcgg ggacaagccc acttggcgtg acccggcgca 360

cccgtggagg gtggacccca ggttcgggct caagggcgtg ccaacgtga tccg 414

<210> 14163

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-E3

<400> 14163

gggagaccca ttaccaatgc caagaacaag aaaccagaga ggacagccgc gaatacgagt 60

cggaatcccc tccaaaaacc caccataccg tctcccccat ctgcaagaac aagatcagga 120

gagcatccta gggggaagaa acaggagggg gaaaaagaag ccagaaaga ccaactgacc 180

aaacaaaaag gtggcatctt tgtgtcaccg aggcaccgcc gatcacagac caaagcccg 240

tcctctggtc catcccaagc gtacagcagc cgagatttct tccatctgcg cctgcgtttt 300

tttttcttgt aaagatttta gttttcccc cttcaactgt tgctagcctt gagtcgctga 360

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gacgacgtca tacgccggct t 441

<210> 14164

<211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-E4

 <400> 14164

 aattccttct ctaccaactc atcctgcaca cccattacca acgccaataa caataaacca 60
 cacatcacat cccctaatac gatgcaaata tacttcaaaa acccaccata ccactatacc 120
 acatctccaa taacaatata cacatatcat cctacacaca ccaaactca ccctcaaaat 180
 caaccccaca aacaccaact caccaaactc atatcctcca tctacctatc atcaattcac 240
 cacctatcac aaaccaatca ccactcctct attacatcct acacettcaa caacctacac 300
 tcattccatc ctactaaca tcaattttta tcttaaacac attacctttc cacatttcaa 360

<210> 14165
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-E5

 <400> 14165

 gggaccgtgg gcaccggcgg cggccatggc ttcccatcct tctcggcggt caccgcacca 60
 gcacccacct cccgaatggt caccaccaat tccaatccct acgcttcgat gccgcaccgc 120
 gcgtaaggcg ctgccaaagg cgctcgacct tgaggtagcg tcgtctgcgg gaagcacctg 180
 aagaatgtca actggcgccg tggcgacctc cgtgcctacg tcgtggtgta ccttgacccc 240
 tcccgcgcgg ccgctacccg ccccgacgac ggcggcgggg gcaaaccaac ctggaacgag 300
 cgcctcgtcc tcccgcttcc gcccacctc tcccgcacg acccctccat cctcctgtcc 360
 ctcgacgttt tccactetaa gccctccgat tcgccaagc cgctcgtcgg at 412

<210> 14166
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-E6

 <400> 14166

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accgccctcc cgctgcggtc cgggaacgac cagaggccgt ctgccagggt ccgcctcctc 120
ttcaccgccc cgcccgcggt ctcctcctgc ctccgcccc cgggcccgcg gtcggccccg 180
tcctcgcttc gggccaccaa ggctgtggtg gcagcgttgg ctgatcctct caaggctcatg 240
atatcaggag ctccggcggt cggcaagggt acacagtgcg agctcatcaa gaccaaatat 300
caactggcgc acatctcgcg cggagatttg ttgcggggcg agatcgctgc tggctctgag 360
aatgggaagc gggccaagga attcatggag aaggggcagc tcgtgcctga tgagatngtc 420
gttaatatg 429

<210> 14167
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-044-Q1-K1-E7
<400> 14167

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ccgccagcca ccctcgcggt cgggtgcgct tgccacgtcg ccgcccgcg ccccggccca 120
ccacctgagg ccggtgcgcc atccataacg cccgcagtc agtccccacc aggcaccagc 180
ccacatctct tctcccacag aacagactcc cagcgcgtct ccgccccctc cccttcacgg 240
ctttgcgcgc gtagatcgga ggaatggtga gcgcgtcgag cctgctgctc ccgtcgtcgg 300
tgcgggacct ggctcctgcg gtctccgacg gcgcgcgtcg cgtcgctgc accaccccg 360
cgtccacggt caggtctcc tctccttgc cgtcgccgc gtccacgc 408

<210> 14168
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-044-Q1-K1-E8
<400> 14168

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ggagctcatc acaacctacg atgagcttaa tccaactctg gtcgatgaat tatgggaaga 120

gccaagcgct cttgagttct tgcagtatgt tgcgaggaat cggccatttg ttgtaagaaa 180
 aggtgctcaa gactggactg ctgttcaaaa gtgggactcg cactatcttc tcaatgttct 240
 tgggaacagt ctcgtcaatg tagcaatcac tcctttcggc aacgcataatg cagtgttgaa 300
 agaagaagat gggttcaatc cctatgtcag gccactcgaa cggctcgagc ctttcgacat 360
 ggtcatccgc tacatttcag agcaggagtt gaatcagtca ggaccta 407

<210> 14169
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-D11

<400> 14169

atatagataa tctaagtcta aaagaactgt cttttctgta tactttcgcc tgtctattgc 60
 taccgcgggt cttatgcaat cgatcggatc atatagatat cccttcaaca caacatatgt 120
 catcgaaagg atctcggact actcaccaaa tcacgaaagc catttataaa atggattcct 180
 atttgaagag tgcctaaccg catggataat ctcacattaa cccgtcaatt tttgatccaa 240
 ttctttatit ttcttggtaa ttttctggaa gaaattttta taatatcgat tcatacagaa 300
 gaaaaagttc tctattgatt caa 323

<210> 14170
 <211> 347
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-B7

<400> 14170

cccacgcatg cactctatat ctcccgacgt ctactcgttc tctgtttccc tccatgccct 60
 caatgtaggc tcaatctaaa cgctgtcccc ttccctcatc aaaaccctan ctcatcacct 120
 caccaccatt ctgtccacta tcctattcca ctgctcctct ccccatctct cttgccatca 180
 catctgatgt ttttctccca caacgcattc ctctacctgt acccatctta ctcaccaacc 240
 tccatgactt cctctaataa cgttactacc cattacgagt gataacttaa gcttcactac 300

atcaagatac tcaactatga catgaaccgc ctggtcatta acttcct

347

<210> 14171
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C12

<400> 14171

gcaacataga agctgtttgg 'atgggacact ctctctcttt gctaaggctc gcaattgtgg 60
atttggcatt accaaaaact cctaatagata actctctgtc attgtttgct gatccccctg 120
ttccagagag attttattgt gcgcattgtg gggggcttga catggtcaca ctgcacttcc 180
taccattttc ataccctgaa atgtcttga caccaccctc tgtgcaccc ctgcctcacta 240
caggggaacag cgaaacaagc tcaccttttc tttctggatt tgttaccata gctgatgcat 300
atggtcatgt acagttagct ggcacacat gcttgggtga atgctttgtg gtggaaatga 360
aaggtttgaa ag 372

<210> 14172
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C2

<400> 14172

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gagatcaatt ctgcgcaaca caagcttga taaggaattc attgcgaaag caataacttt 120
gcctggtcaa ggggagatta tggatatgat ggaagttgca gatcctgatg cagttcatgc 180
tgtccgtaac tttattaaga aagagcttgc cgtgcaactt aaagatgatc ttcttgcggc 240
tgtgaaaagc aacaggagtt ctgaggctta cacatttaac catgatagta tggctcgccg 300
tgcattaaaa aatacatgcc ttgcataccc tgcgtcattg aatgagccag aattcgttga 360
gcttgactg catgagtaca agtctgcgac taacatga 398

<210> 14173
<211> 387
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-C4

<400> 14173

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cgncgcgcgc cgncggggccg ncatcacaga ctaccgcaag aagctgctca actgcaggga 120
gctagagtcg cgcgctcgga ccgtgagaga aagccttaaa actgcaaaga aggattttac 180
caagactgag gacgacttaa agtctctgca gagtgtgggg caaataattg gagaagtact 240
ccgacctctt gataatgaac gctntatcgt gaaggccagc agtgggtcccc gatacgtggg 300
cggttgccga agtaaagtgg acaaggagaa gttgacatct ggtactcgtg ttgtacttga 360
catgacgacc tttgacataa tgcgcac 387

<210> 14174

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C5

<400> 14174

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aggcggcagg tcacacacac agcacacgca gatcttcgat caccaccatg ggttctctcg 120
gcagcgccgc gcagcagcag cagcaaccgc acgccgtgtg cctgccgtac ccagcgcagg 180
gccacatcac cccgatgctc aacgtggcga agctgctgca cgcccggggc ttccacgtca 240
ccttcgtcaa caccgagtac aaccaggcgc gcctcgtccg gaccgcgggg gcggcggccg 300
tggccggcct cccggggttc cgcttcgccca ccatccccga cggcctgccg ccgtcggagg 360
acgacgacgt cagcaggac atcccctcgc tgtgcaagtc caccacggag acctgcctcg 420
gtccc 425

<210> 14175

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C6

<400> 14175

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eggcatgtca cacacacaac aactcacat cttatatcac caccatggat tctctcagca 120
tcgccccca tcatcatcag caaccgcact ccatgtgcct gccataacca tcgcaagacc 180
acatcacccc tataactcaac gtgtcgaaac tgctacacac ccggagcttc cacgtcacct 240
tcgtcaacac cgactacaac tcaggcacgc ctcgtccgga cccgctatac tgctgccttg 300
gccaacctac ctgacttccg cttcgccacc atccccgacg tectgc 346

<210> 14176

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-C7

<400> 14176

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gcttattcag aattttacac acacancaca ctcatatctt ctatcaccac catttnttct 120
ctcatcatct cctctcatca tcatcatcaa cctcactcct tatacctacc ttacccatct 180
catttcacac tcacccctat tetcaacttt tctaactctc tacactccct attctttcac 240
ttcaccttca tcaacaccta ttacaacc 268

<210> 14177

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C8

<400> 14177

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catgcggtcc ttgcgaaaca tctgcaacgc tggcatcctt cctgaagcag tgtcgaaggt 120
cgctgctcag gcttgcacca gcattccttc caaccctgg agttctatcc acaagggttt 180
tagcgcctaa gaatcgtaag gtgaggcgaa atatttcagc cgctccaccg caacgaactg 240

gtttacatta ccagtcctca ggggggtcct agttcttgaa ccactattat agctgttcca 300
 ccgttccaga ttacatagct atgcccatt tccggtgtac atattatagt cggaagtta 360
 tttggcaatt gtattggtcg ttgctgtata tattccctat agtttgtag cagatgtgta 420
 gtttgtgatt ccattaaaat ga 442

<210> 14178
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-D1
 <400> 14178

agcagctccg ctgctcgatc agctctcggc tgaccactca tcgccagtgg gtgcctgccg 60
 gccaggtctc gccgccggca ccgcccggt agagaaggga gggagagggg gaaaaaactg 120
 gcccaaatcg agaggtacag cacgaaaaag agaggcaaga gagatagggg accggagggc 180
 ggcgggccgg ggcccaagac cgaggggctc gtgcgcagga agctgatgag gtcctgtcgc 240
 ctgctccctc tcggctgccg tgctggacct atcgacgacg cgccgncgcc cgtggaccac 300
 gccgccgccg cgaggaggcg ccggaggagg agggccaaca gggccgncca gctgctgggg 360
 gctgctgcgg gtgcgccgca gcagtggcgc ccctcgctcg gcgacatctg cgaggagta 419

<210> 14179
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-B6
 <400> 14179

ctcgggggtct cccgacgtcg actcgctctc ggtttccctc catgccctca atggatgctc 60
 gggctgtccg ctgtccctt cccgcgtcga aaccctagct cgtcacctcg ccgccgtgct 120
 gtccgctgtc ctagtccgcg gctccgcgcc ccatctctct tgccgtcgca tctgatgttc 180
 ttctcccgca acgcattccg cgacctggac cccatcgact cgccggcctc catggcgctc 240
 tcgaagaagg ttgcgacctg tgacgagtgg gagcggaagc ttcgcgacgt caagatacgc 300

aaggaggaca tgaaccgcct cgtcatgaac ttctctgtca ctgagggctt cgtcgacgcc 360
 gncgacaagt tccgcatcga gtccggcacc cagccggaga ttgacctagc gatcatcgcg 420
 gatcgaatgg agggtaagag ag 442

<210> 14180

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H8

<400> 14180

ggcatgcatg ggttccctag gctcaagcac cattagcagc atgaacatgg cgaagcaggc 60
 agccaccacc gttggtgcta agaacggcgc tgttgctgtc gccgatcagc agaaagtaga 120
 gggccccagg acgatgaact gcagtagcta caccttcac atgccgctgc actaccgcg 180
 gtacaagaag gctgactacg agagcatgcc ggagtggcgc gtcgactgcc tgctccgcga 240
 gtacggggct cccgtcgacg gcgaactcga cagcaagcga aagttcgcca tgggcgcctt 300
 cctctggccc gaccagtact gaaggaaccc gtggcccag ctgaagctgc tgagcctgag 360
 ctaacaagag atg 373

<210> 14181

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-A1

<400> 14181

agaagacgag tgtcaagtga acctgaaact tgcggtgtca ctggctggta tagcctgagt 60
 gtgagtgagt gatcgagcta gctgaagctc cgatcctcgc tagctagcta ggataccgcc 120
 ataccacaag tcttcttcac aagtttagga gtgacagcaa caagagatct cgatggcctc 180
 tgccaccgtg ctcaagtctt ccttccttcc caagaagtcc gaatggggcg ccaccaggca 240
 ggccgcccgcg cccaggccgn ccaccgtctc catggtcgtc cgcgcctccg cctacgccga 300
 tgagctcgtg aagaccgcga aaacgatcgc gtcgccgggg cggggcatcc tggcgatgga 360
 cgagtcgaac gcgacgtgcg ggaagcggct ggcg 394

<210> 14182
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-A3

<400> 14182

actgaaccac cgacagacaa catggccgcc tccgcctcca cegtctccgg cctcgcgggc 60
 gcctccctgg ccagccgccc ggcgttctcc accagcttca cgcggggcag ccgggtgtcg 120
 gcgaggaacc ccctgatgag caggaacctg gagaggaatg gcaggatcac ctgcatgacg 180
 tttccccggg actggctgcg gagggacctg agcgtcatcg gcttcgggct catcggctgg 240
 atggggccgt ccagcgtccc ggccatcaac ggcaacagcc tcacggggct cttcttctcc 300
 agcatcggcc aggagctggc ccaactcccc acgccccgc cgtcacctc ccagttctgg 360
 ctgtggctag tgacgtggca cctgngcctg ttcacgtgc tcaccttcgg ccagatcgga 420
 ttc 423

<210> 14183
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-A4

<400> 14183

ccgtcctct cacaaccag tcgtcaaaa ccctagagct ctgcctgct cgctcggcc 60
 gccggagcga gctccccatc ttcacccgtc aaccatggcg acccagatca gcaagaagaa 120
 gaagtctgtc agcgacggtg ttttctacgc cgagctcaat gagatgctga cgcgggagct 180
 ggcggaggat ggctactctg gcgtggaggt gcgcgtcacg ccgatgcgca cggagatcat 240
 catccgcgcc acgcgcacgc agaacgtgct cggcgagaag ggccgcagga tcaggagct 300
 tacctccgtc gtccagaaga ggttcaactt ccctgagaat ggcgtcgagc tttacgccga 360
 gaaagtcgtc aaccgtgggc tctgtgccat cgcgcaggcc gagtc 405

<210> 14184

<211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-A5

 <400> 14184

 ccacgcattc aactcaacca ccaacaaaca acattttctt ctccccctcc actctctcct 60
 tcctctcgga cggatctctt tcaaacctac ctattctctt caacatatta actcctaact 120
 accatataac cctacaaccc cccttcacca tctacctcca tacctacatc accatcacat 180
 acaatactta tcctcctcac tctcttctta tcctcatata cctcctctc tctactctca 240
 ccatctc 247

<210> 14185
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-A7

 <400> 14185

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 gctctcgcgc ctactgcttc cgctccacct acaaattact aatggccggc ataaccgtca 120
 cgtccccgcc tccccctcc tataccctcg cctccgcaac cgccgcagac gattcttcgc 180
 ggcctcctcc tcctcctcgc ctcagatggc ggcgcctgcc gacgccgccg gtggctcctc 240
 tgacgcgttc gaagtgatcc gcgttcacca ggcaaaagct gttcgtcttt ctccagctga 300
 agaaatacgg accattatgg accgaagtgt caaaagtgtt cttgctaccc attctcagga 360
 ttatgctggn tatccatctg ggtcatgggt tgattttgca t 401

<210> 14186
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-A8

 <400> 14186

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agcctccacc ggcgcgcgag tcacgccgtt catgcaccgg ctggctcctgg agcacgggag 120
 gacgagcatg tcttgggttcg gccccagccc caaggtgacc atcgctcgacc cggacctggc 180
 caaggacgtg ctgtccaaca agttcggcca cttcgagaag ctcaagggtcc cggcgctgtc 240
 caagatgctg ggctccggcg tggccagcca cgagggcgag aagtgggtca agcaccggag 300
 gatcctcaac catgcgttcc atcttgagaa gctcaagcgc atgctgccgg cgttttctac 360
 gtgctgcgag gaactggtga gcaggtgggc ggcgaggtcc cttggctccg acggctcgtg 420
 c 421

<210> 14187
 <211> 275
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-044-Q1-K1-A9

<400> 14187
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 gggtcctcc gctcctccc ctgctggctgc tgccaaggcc aaggcggcgt ccccgctcgtc 120
 gtcgccatgc aggcacctcc agttcctgtc ggcggcgagc ccgcggcggc ggtggcgggc 180
 cggcgcccgc gcggtgcggg cgcaggtgtc caccaccgag accgcggcgg ctgggccggc 240
 gaagacgttc aagaagcatg acgaagggtc tgtca 275

<210> 14188
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-044-Q1-K1-B1

<400> 14188
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 gctgaaagag gctgctcttt tgggtgattga atcactaaag caggataaca gagaagccct 120
 ggactgggct tgtgttagaa aagaagcatt ctgctcagac aagaatgagt actctcatct 180
 gcttgtttca gacttcactg acacaacgcc gtcgctccca ccagaagaac tgcgaccatt 240
 tatggtcggt ccaggaatgt tgcattgagat gccacctgtt gaacaagaag ctggacccga 300

gagactccgt gtcctcgtg aagtcgctgg gcgtaatcct gcagtagtct tccttgaatc 360
 actgctccca tgggtcgact atggtgacaa tcatacaagg gcaaagacg acgacaacga 420
 cgacgaatga tc 432

<210> 14189
 <211> 350
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-044-Q1-K1-B10
 <400> 14189

cacgaataaa tctgagctga tttctgtgaa atttatatgc gaacccttg aaattcgtgt 60
 ggtccaaaca cggcctaaaa gaactttgtc tagagaaacc ctctaggtaa cacagacgcg 120
 caaaccttca agtatcgatc tcagagagga catgcagaag atgatttgca gtttgctgcg 180
 gggtaggctc ctcagggcct ttgggactgc ttttgtcttc gcctgactcc accttttatt 240
 tttgtttgaa cttgctacca gctggatact tccagagaat ccgtacagta cagcccttgg 300
 ctgttgaatt ccaagtcttc gctaaatgaa ccattcagac atcgccatct 350

<210> 14190
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-044-Q1-K1-B2
 <400> 14190

ttcccatctc taccactca tccttatcaa tatatatctc taactccatt ttatcatgtg 60
 cacattccca aaacttcata gctggcttaa aaatacttct cttcttctca ttcaatcact 120
 aaatcactat aacatataac cctccactc tacttttttt acaaaataat cattctctc 180
 atacaacaat caatactctc atcttctttt ttcatacttc acttacacaa ctccatctct 240
 tccaccataa taacttcac catttattct caatccatca atatttcatt aaattccacc 300
 ttttaacaa taatctttac cctaaaaact tctactcct cttaattct ctcaacctta 360
 tccttcatta atctt 375

<210> 14191
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-B3

<400> 14191

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 gccatggcgt cgctccctcac cggtctccaa cccctcttt ccccgtecca cctcataaacc 120
 catccgcatac ggttccctgc gcgccccaac cccaccaccg gcctnctccg gctcaccaccg 180
 tctcgccgcc gcggctgctc ccccggtggc gtccgcctcg caatatctgc ctctccacc 240
 tcagccccgc ccccgteggc ggatcggtcg gaggccgcgt cgctcgctgga gagatacctc 300
 tcggcgacgg tgacgggagc ggtgatggga acgggggcga cccaccagc ttcggccccg 360
 ccgcgcgccc cgccggcgat gaagggggga cggaagcagt atagcgcgtt gggggctgtc 420
 acgctcg 427

<210> 14192
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-B4

<400> 14192

cttctctagt tctctgatcc tcagcactta gcatcaagct tagcacaccg gcgagagggg 60
 gtccacctnc accttctgt ccacctcgc cagcaggtcc gcggcagccg atagcctgcg 120
 cagcgccgtg ccgtccttcg ccaagatcgt cagggttcttg cccgcgcagg cgcagatcag 180
 ccgcaggcgg cgcgggcggg tgctgccac gccgagggcg gcggtgtcgg gcaccgagaa 240
 ggcgccgtcg agcaagcacg agcgcggtgt cagggtgcac agcaccagc agttcgacga 300
 cgcgctcaag gccgncaaga accggctggt ggtggtggag ttcgcggcga gcgacagcga 360
 ggacagcagc cagatctacc cgaccatggt gcagctcag 399

<210> 14193
 <211> 121

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-B5

 <400> 14193

 aaaatcctca ccccttcca cccacctett tccttatccc acctaataac ccatccatat 60
 cactccccctt ctctctccaa ccacaccaec tacctccttc atctcaccca ctcttctcaa 120
 c 121

<210> 14194
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-H7

 <400> 14194

 gggaagggag cggaagagag gtgggtgacc gtcgctcctc cgtccagcct tccagttcca 60
 ggcggtggcga actacgcaag cggcaagctc accgctcctc gagtgaggcc cagggtccgt 120
 cgccgccgta ctcagcagcg gagaccggcg agtcaacagg tagtagaggg ggaaggaggg 180
 gagcagttcc tggtcgcccc gtcaccgcgc ggcccagca atcccgctgc tgcgtccgcc 240
 tcagtttgcc gtcgccctgt tgcacgtacg gctagggttt ggagatagat ccgcccgcag 300
 cgcccgccag ctcggtgtgga ggcgcgccgt ggtgcggggg ttccttgctc cggaagcttc 360
 agggcggtgcg aaccggttcg gtcgcaatgt cgggatcgtc ggcggcaggg gaggacatag 420
 tgcagcacct atcgtccaat tctaaccg 449

<210> 14195
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-G1

 <400> 14195

 tataatttca attatgatta cattgactct cctacctta tagatgcaga actttttaac 60
 taatcataat tgaataatca caataattaa attaataata aaaataactaa ctttttgtaa 120
 tcccatcata acaaatatga atatgatatt cttcatcttg ataactcatt gtttgattcc 180

ctttatgctc cactggagtt ttacacttag gtatggtctg caatatctcc tgacctatat 240
gcgcccttgt ttttcacaaa taggtctgct ggttggtgca tggattattt tcctacata 299

<210> 14196
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-G10

<400> 14196

gttgatatgt ggcacccaaa attatacaac atccaagtgg agagagaata atggtgagtc 60
atgttgatta tgatcaacga cctgatatct ttaggggaac aattagatat gcgagtgtcc 120
atgctcattht ggggtgcaat ggtagtagga gggatgattt acagtcactg gcatacaccc 180
ttattttcct gataagagga agattacctt ggcaaggcta ccaggagat accaagagtt 240
tccttgtttg caagaagaaa atggctactt ctacggagat gctttgatgc tattgtccag 300
ctccattcaa acagtttctt gagattgtca cacatatgaa atttgacgaa gagccaaatt 360
atgccaaagt tatctctctg tttgatgggt tgattgaagc ac 402

<210> 14197
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-043-Q1-K1-G11

<400> 14197

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gatatttcgt ttggttctcc tttccgtctt gtccgtcgcc gaggccttct tcccctcgtt 120
ccccagctcc agcaggcaga tcagatccat ccaaccacga acaggaagga aggtaggagg 180
cctgagggggc tgaagttgaa ccatgagtgc cgtcgcggtt tcgtcgtcgc tgaacccgaa 240
cgcgccgctc ttcattcccg cggcgctgct gcaggtggag gacttctcgc cgcagtgggtg 300
ggacctcatc accaccaccg nctggttccg cgaccactgg tcccgcgagc acgcccacct 360
ggacgagata gccgagcagc tcgagttggt c 391

<210> 14198
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-G3

<400> 14198

cccaggctag tccgattcaa acccgcccgt ttcccttgtc cgagccacgc aagccgagct 60
caagcctgat atgccagagc gggctgctcg gcgctccacg cgatggcgca gaaggagacc 120
aatggcagca acggcgagca catctccacc cgcccgccgc cgaccccgtc gcccctccgc 180
ttctccaagt tcttccaggc taacctgcgg atcctggta ctggtggggc gggcttcac 240
ggctcgcacc tcgtggacag gctcatggag aacgagaagc acgaggtcat tgatgctgat 300
aactttttca ccggttcaaa agataacctg aagaagtga tcggacaccc aagatttgag 360
ctcatccgcc atgatgtcac tgagccactt cttgtggagg ttgaccagat ctatcacctt 420
gcttgcctt 429

<210> 14199
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-G6

<400> 14199

accattgccc ttgaaacctt cttcaaaacc ttggcccttc accccccccc ttg 53

<210> 14200
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-043-Q1-K1-H10

<400> 14200

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agagtggaga ctggagaggg ttaggaacac tttcaaggga atcgagggat cccacacgtg 120
gccctttcag attatgtagc atatctcctg agatagtact tcttcaacaa cttgcactat 180

cgattgagta catgcccttt ctatagtcag attgcaaaga aatggcttga ctctcagttt 240
gccagatcta aagcatcagt tgaacgggtca taatggcgaa taaacaaaga tctcggccaa 300
gcatctctaa aagggttcagc ttggttgtaa tcaataaact ggaggaatgt agataccaat 360
gtcgtcttac tccatcagaa gctactagct tctaataag aaccaaattt ctggaaaaa 419

<210> 14201
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H11

<400> 14201

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cactttcaag ggaatcaagg gatccacac gtggcccttt cagattatgt agcatatctc 120
ctgagatagt actttctcaa caacttgac tatcgattga gtacatgccc tttctatagt 180
cagattgcaa agaaatggct tgactctcag ttgcccagat ctaaagcatc agttgaacgg 240
tcataatggc g 251

<210> 14202
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H12

<400> 14202

ggctactccc tcttccggct cccgcgtagc gactccaaga agcagcagga gcgtcgagct 60
cgagcagcag ccatggatgg cgaggaggtt ggcaggaggg gtattcctac tctgctgaag 120
ccgtcttctt cctccagcga cggcagtgcc ggggaacaag agcacatcgc ttctgacgtc 180
actcagctca taggatggac gccgctggtc gaattgaagc gaatcgccag cgaggctggg 240
atcgatgcgc ggatcgctcg caagatggag gcttaccagc cactttgctc catcaaggac 300
cgctctgctt tgagaatgat agaggatgct gaggagaggg gattgatttc gcctggagtc 360
acaacactgg tggagccgac gagtggtaac atgggggtta 399

<210> 14203
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-H2

 <400> 14203

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 tgatctagct aagcacactc gaacattgct cgatccacat ctacggttga tactaccacac 120
 aactatatca ctctacagt cctcgatcct actgcacgcc atacatctca acccccaatt 180
 acgccttctt ctaccacca caccattacc caataaacat ccat 224

<210> 14204
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-H4

 <400> 14204

 cgacccaggc gtccggetgg actacctcgg caaccccagc ctgatccacg cccagagcat 60
 cctcgccatc tgggcctgcg aggtcgtgct catgggtggc cgtcgagggc taccgcattg 120
 ccggcgggcc gctcggcgag gtcgtcgacc cgctgtaccc tggcggcagg cttgaacccc 180
 ctcggcctgc cgacgacccc gaagccttcg ccgagctcaa agtgaaagag ctcaag 236

<210> 14205
 <211> 108
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-H5

 <400> 14205

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 tgggagcgac ggttcagtga tgcggatatg agacggatgc atcttttg 108

<210> 14206
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H6

<400> 14206

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gcagttgcgc gctgacaggg agccgcagct agctgtctac tacggcacia ctatctctg 120
cgcgcggtgct cgatcgatct gaaggccaga cctgtgctg tccaattttg ccttggttcta 180
cccaccacac cagtagtcga gaaggttcca tataagcgca agcagacagc agcaaaagag 240
ctaaggagag tctgagacia ggttcgaaca gatggaggat gtggtgaagt tcgtctttgg 300
agtttccgga aatgtcatcg ctctcttctt ctctcttctt ccagtgccta cgttctggag 360
gatcatcagg aggaagtcga cggaggattt ctcggggggtg ccgtacagca tgacactctt 420
caactgcctc ttgtcagctt ggtacgggct gccgtcgtgt 460

<210> 14207

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-043-Q1-K1-E12

<400> 14207

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gcgagaggtt gcgagaagta gccgccgccg gaggagcacg ccaaggccgc cgcctacgag 120
gacggccatg gggttctggg tgaccacgct catctttctc ctgcgccggc tcgccgcctc 180
cctcttcacg ctctctgct gcaaccgcgg gccctccaca aacctattcc atttgacctt 240
ggtgactaca gctgtaattt gttgttgat gatgtatgct atcgtttacc ttgctcagat 300
gaagccattg atcaacecca tctgagcgg ngagtgatct ctctctgca ttaaaaagaa 360
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<210> 14208

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-E6

<400> 14208

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ttggggatga acatcgcgcg cattgctttg tggcct 96

<210> 14209

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-E9

<400> 14209

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acggcgtact cgaagccgcg ccggctgctg accgacgagg tccccgggat cgtcgacgac 180
ttcaggcggg ccgcacggaa cgcgatccag gctgggtttcg acgccgtcga aatccacggc 240
gcgcacgggt accttctgga gcagttcatg aaggacagct gcaacgaccg cacggaccag 300
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<210> 14210

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-F1

<400> 14210

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acgggggtgat ccagacggcc gggttcatgc ggctcacctt ctgggagctg tcgtgggacg 120
tgatggagcc catctgcttc tacgtcacgt ccatgtactt catggccggc tacgccttct 180
tcctccgcac caagaaggag ccgtcgttcg aaggcttctt cgagagccgg ttcgcggcca 240
agcagaagcg cgtgatgcgc gcccggggct tcgacctccg caggtacgag gagctccgga 300
gagcctgcgg cgtggcgggc tcgccgccgc tccaggcccc gacccctgc gcgagcgcg 360
gcgcggcgcg ggagagcggc cattgccact cctactgcc a ttgccattga tcttggcctc 420
gctcggttca ttcctttctt tttttt 446

<210> 14211
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-043-Q1-K1-F10

<400> 14211

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catggtaact gcaaggactc accaaattgt ttctgcgggt tgattcccat tggcaatggg 120
gttcgtaa at ctggcctctg gcagaaaact caggagatta tccgtggtct tggtccta at 180
ccatctagcg atcttctgtga ttctagcgag acgcctgctg ggttgactaa cctgggagca 240
acttgttatg cgaatagtat tctacagtgc ctttacatga acacatnctt ccgatctggt 300
atcttctcat tggatctgga tgttttgaag aagcatccag ttttagatca gctgggttcgg 360
ttgtttgcac aactacagtc tagcaaatg gctttcattg att 403

<210> 14212
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-F4

<400> 14212

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ttctcggggt aggggttcctt aggccttttg gggggtgcta tggcgggggg tgatgtggag 120
taccgttgct tcgtcggcgg gcttgccctg gccaccagca acgagtcgct ggagaatgcc 180
ttcgc 185

<210> 14213
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-F7

<400> 14213

actctctcac catcttcctt cctactgcct tcaattctta actaaacatt aatattatat 60

ccgataactc taaacataac cactgcctca caaaaactta atctgataat ttcaatgatc 120
atcacattca ctctcctacc tctat 145

<210> 14214
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-F8

<400> 14214

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gtcgggtctgt tcaatctgtc ggctcggcat ggacgctccg agcaactgca cgcgtcctgc 120
gcgcgccaaag tgaccgaaca agctgagctc tgctgctaca gttgcttgcc cctgtgccaa 180
actggcagga ggtaggtagc ttatagcata gcagctagag ctaagctgtg gtgcgtagcg 240
gcagctagag ctagcttggtg cacgcgcagg tgcgtgctag ctagctagc 289

<210> 14215
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-C1

<400> 14215

taattccccg gtcgagccat gcatacctgc gtctgcttga cgtcctgtgc taggccatta 60
acttccgttc ggacgaactc tgttaaggag agggatcccc agaacgacaa gcaccccatc 120
ctcaatcacc ctcccaaggc ctacattccc actatgatta aaaaagtctt aatagctctt 180
gaaaagctta cgaagaaacc ttacacgcag cctgaaaaaa tcaattagat acacaacctt 240
atacttcacg catacaaaga catctacaag acggttaacg ttggctccat tcatatgaac 300
actgccaaacc atcccaaata tccacttgca atgcataaaa acgccattga gatacttctt 360
ggtttgtatg ctccaaactc ttaaccttgc tcttccacct aggattcttc aaaaatcgct 420
atcata 426

<210> 14216
<211> 186

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-C10

<400> 14216

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 gtatgacata tgacataaca aatctgtact acagtgtcct cctccctgcc tttagaacat 120
 atcaaaacaa acacatgcac tcaccgatta tacgacacaa gctatgccta atacatcaac 180
 gatcac 186

<210> 14217
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-C2

<400> 14217

tcttccaacc aaaaaccggc tttataaacc tgctacaaac aacttcaaca cctggtcagg 60
 tcatcagatg tctgctggta cctataaaca aaaatcatcc tctaagtcac caaatcctaa 120
 caatcaccaa gatctcatta aaatatcatc ttttcaacga gaaaatcttt taacaagtat 180
 ggatacatgt tcagaacact attacaccat actatctccg actctgacaa aatgcatcca 240
 cctgaactat ctccacaatc gcctactcac cttattacag aacatctttc cacctcataa 300
 caccctactg cgactacatc attaaacctc atccatacag tacatacatt atcaaacacct 360
 taatatcaga ttt 373

<210> 14218
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-C5

<400> 14218

ctcgatctcc atctcgaccg tcgctcaccg gtaagctacg ctacgacgaa ccatggcatg 60
 ggtgaccgcc cgagcccggg tcgcagccct gcgcccgtca tcctcgctcg gcttccttgg 120
 ccaacttaac caactcggcc gaactgctac cgagtcgccg acgaggcata gtctcaaggc 180

ggatgccaaa gtcaagtaga tcccgaacct tacctctcac g

221

<210> 14219
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-043-Q1-K1-C8

<400> 14219

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cgcccaccgc tgagactgaa aggtattgtc tcccttggca gcaaggagcc tgcccagaag 120
cccaagcccg ctgcggtatc gtcctcttct ccagacatca tcgacgagct cgccaagtgg 180
tatggtcctg acaggaggat ctacctgcca gatgggctgt tggaccggtc ggaggttccg 240
gagtacctca ccggaaaggt ccttgagac tatggctacg acccttttgg cctgggcaag 300
aagccagagg acttcgcaa gtaccaggcc tacgagctga tccatgcaa atgggccatg 360
ctcggtgccg ctggcgctgt cattccagaa gcctgcaaca ag 402

<210> 14220
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-D5

<400> 14220

ccttcctgaa ttccccgggc gggccacgaa tccaccggca ccaaccgatc cactgccctg 60
catcatttca tcggcaagat ccaacaccac aagagccgtt tttcaaacgc tggtgctcac 120
gctcactgtt accaactcca aatgctacgc tctctccacg ctgctccgga gactcaggaa 180
cccaagcgac aatcttcaca gctgataccc cagctcata caccactgca cctctttcca 240
cgtgacctgc caccccaaca accgcgtcac cctcctaaca tctttataat tagaactcat 300
ctggtcactt ggtccctgaa ctttgcaaac tcgagcatct tcagtatctg gaactttata 360
agaataacat tcaacgaaca atcccttctg agcttctcaa tatcaagaat ctaataagct 420
acgacttgta caagaacaac atttcactga caata 455

<210> 14221
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-D6

 <400> 14221
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 ctatcacgct ggtgatecgt ctctcgcca ccaactcgga gaacctccca catcagactc 120
 ttgcctgac cctcacgtac caccaaatta gatttcacat acttaacacc tagctcatcc 180
 acccttccta ctggcagctc gtctctacc tccatcacta cagcttcata ctactagatc 240
 ctcatcataa gcaactaacca gcttcactag cccatccgct tgtaaaacca actcattttc 300
 aacatgtcga actatataac cctaacactc aagaaacatt ctctcgatcat ct 352

<210> 14222
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-A4

 <400> 14222
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 agctctgctg gcgttgggat tattttgcct accaaacttt tccgggtgga ggtgaactat 120
 tgtcgcattcc taaagcaagc tgagcatgac agcgcaaga ctggaatcca gttcagcttt 180
 tcctcgccca tgtaggaact tgccatggca gccgaagtag ctgcactttc ctctgtagac 240
 ttgcattctt cccgttcttt tcatgctgaa gcaattgaag aggtttacgt gctccctttt 300
 cttgtgacgc ttgttcattg aca 323

<210> 14223
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-A8

 <400> 14223

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acgcgccggc anaacgttcg gggtcgacgc cggcgccgcc aggatcacgt gtcacctgca 120
ggacgtcgcc agcaggtgcg tcgacgcgc gaagctcgcc ggcttcgcgc tcgccacctc 180
ggcgctcctc gtctcggggc cgagcgcgga aggcacgccc aagaggctga cctacgacga 240
gatccagagc aaaacgtaca tggaggtgaa gggcacgggc acggcgaacc agtgcccgcac 300
catcgacggc ggcgtggagt cgttcccggt caaggccggc aagtaccaga tgaaga 356

<210> 14224

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-B12

<400> 14224

gggagagatg ccgtgggcca caactgctcc gccgcctgt cctccgccga gtccagcagc 60
ggcaccagtc cggacgcagc tcctctctc cgtcggaag ctgcgctca cggccgcgt 120
cgtctcgggc tctgggggtc ccgtgcctg cgtcgtcgtc gttccggccg ccgtcaggc 180
cgtcccgttc gtccgtcctt ctctctctc gcaaggaagg cccttagcct cctccactcc 240
ttacgcacag tcccagaagc tgcagcttgg cctcgacaag ctcggaaga tcaggccatg 300
cccgtccacc aaccgggggt gcgtgt 326

<210> 14225

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-B5

<400> 14225

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cttcggttgg gggttcctta aggtttggg gagggccaat ggcggcggtt gatgtggagt 120
accgttgctt cgtcggcggg cttgcctggg ccaccagcaa cgagtcgctg gagaatgcct 180
tcgcctccta cggcgagatc ctcgactcca aggtcatcac cgaccgggag acggggaggt 240
ctcgcggctt cggcttcgtt accttctcct ccgagaactc catgctcgac gctatcgaga 300

acatgaacgg caaggagctc gaccgcccgt acattaccgg taaccaagcc caatccccctt 360
gccgttgccg ttgccgccg 379

<210> 14226
<211> 82
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-B8

<400> 14226

tccatatcag acgtgccacc tccaccatca actgtctaac acatagcttc ctcgatatga 60
attctatcta ctaataaagc ct 82

<210> 14227
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G2

<400> 14227

tccggaattg aatgttcggc tgcagccacg cgtgcgcaga ggaaaagggc aaaagccaaa 60
aggcattacc gacgcgacga caatggcagc ctaggtccag agccgcggtc accctgatgc 120
agccggccaa gatcggcggc cgggcgcctt ttgcctcgct gccgtcccg ccgtagtcgc 180
aactcgctg cagggcgctt gccgtcgacg ccggcgccgc caggatcacg tgctccctgc 240
aggacgtcgc cagcaggtgc gtcgacgccg cgaagctcgc cggcttcgcg ctcgcc 296

<210> 14228
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G3

<400> 14228

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cgacaggact aggatgagct agcctgtgat gaggtgtgtg actccatgga cgcggcccat 120
caggacgcgc gggactggga ctgggaggtc cagctgccag accacaggag ctgattctta 180

atgcgccaac accacggcag catcgataat acccttgacg atcaagaaga accagacgag 240
ctcgacctgc tgctgact 258

<210> 14229
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G5

<400> 14229

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ttgggggaaac aggaccggga tggcgactag tttcaccaca tttttcttca cttcttgatt 120
cagcaatddd tccagcatta gcattgaatg agaaggatat agaagaatgg gaggaggata 180
ctgatgagta tatgcaaaga atcttccttc tgaacttgat gacatttctg gatggactga 240
ggatttggtc actgccagaa aaagt 265

<210> 14230
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G6

<400> 14230

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cgtggtctta ttcttaagca agcccccgag agggcttagt tgatcatgat ttctgtcttc 120
tctttttttt cctttttatt tgtttgcaaa aagatttcgt tcgatgctac ttctattgat 180
tctttatcga tcgatatgta tggatccatg tgtgtacata cctagatacc gatcatggat 240
t 241

<210> 14231
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G7

<400> 14231

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 aggagagag agatgcgcgc tctctttctc tccgtcgggtg gtgcgggttga ccgcccctct 120
 cgagcgagat ctgcgtgcag tccctcgaga tctggtcaca gatctatccg acaagatggg 180
 gaagatctgc tgcacgggtg ctggctatgt cgggtggccca accatggcgg tcattgcctt 240
 caagtgccca gacattgagg ttgtcgt 267

<210> 14232
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G8

<400> 14232

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 cgtcgcaact cgctgcagg gcgttcggcg tcgacgcgg cgccgccagg atcacgtgct 180
 ccctgcagga cgtcgccagc aggtgcgtcg acgccgcgaa gctcgccggc ttgcgcgtcg 240
 ccacctcggc gctcctcgtc tcggggc 267

<210> 14233
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H1

<400> 14233

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 gagcattgtg tgccaggcgg cgagcagcat gtccgtcgac cgcgccccg acatggagaa 180
 gcggaagctg atgaacctcc tctcctcgg cgccatctcg ttgcccaccg tcggcatggg 240
 cgccccctac ggcgcttct tcgtc 265

<210> 14234
 <211> 408

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-042-Q1-K1-H10

 <400> 14234

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 ttgtagacgg cccctttgga gttgtctctg cagttgagtt catcggaatt gtcttgttta 120
 tagtttttgt tgtctactca atgacctatt atgccgtgga agctgtgagc cttgtctcga 180
 aatttgacat cccatcaatg actgagagtg aattgatact ggatgtcatt ggctccggt 240
 taggggcggt tgggttggtc tgcattctct tcctcttctt gccagtcgcc cgaggctcgg 300
 ttctcttacg gcttatcgat attccatttg agcatgctac aagataccac gtctgggttg 360
 ggcattctcac gatggctctc tntacattgc atggcttggt ctatgtga 408

<210> 14235
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-H11

 <400> 14235

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 gcaccaatct cccctaccat atcgatcgac cctgcaaggt ttaatccaac agaattccac 120
 cggaatttg gtgaagtgtc aatcgcttgc ggcttgcttg cccggtctcg tggctttgtg 180
 ctgctcccg cgtggtgagg aaccctagga tggcgggggt ttcgatggcg gcggcgctg 240
 aaggggtgct gcaccgccg attgagtttc atcttgacg gagaccgcat ggctc 295

<210> 14236
 <211> 128
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-042-Q1-K1-H12

 <400> 14236

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gctttacata tatgtgggta gagaatatag atatatgggc tatgtgttca aaaaaaaaaa 120
taaaattt 128

<210> 14237
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H3

<400> 14237

ggagcagtgg gaaaataact actacatcag tgccatagct ggtgcaatga atgggagttc 60
cttgggtggtc atgtcaaaag gaactcctta cactcagcag tcttaciaag ttagtgaatc 120
attcccctac aagtggatca acaagaaatg gaaagaaggt tttcatgtta catcaatgac 180
aactgcagga agccgctggg gtgtagttat gtcaaggaac tctggatact ctgaacaggt 240
agtggagttg gattttcttt atcc 264

<210> 14238
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H4

<400> 14238

aattaccggt cggctaacaa cactaaccta gtgttaccca gtgtaatacc caaaaatgta 60
ttcaaagaaa gtagagttga tctgcttaga tgttatgcca tctactgatt ataacatgga 120
acatcctaata cgaatgaaaa aaataat 147

<210> 14239
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H5

<400> 14239

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ctgggtggtc atgtcaaaag gaactcctta cactcagcag tcttaciaag ttagtgaatc 120

attcccctac aagtggatca acaagaaatg gaaagaaggt tttcatgtta catcaatgac 180
 aactgcagga agccgctggg gtgtagttat gtcaaggaac tctggatact ctgaacaggt 240
 agtggagttg gatcttcttt atcc 264

<210> 14240
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H6

<400> 14240

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 gccgggggtac gctccggcgg tcccgtacgg gatgtcgcag gtgaacatcg agggcaacgg 120
 gtgcggggcgg gcgctgccgc cgcagccgac cgtgaaggtg tactgccgcg ccaaccccaa 180
 ctacgccatg agcgtccgcg acgggaaggt ggtgctggcg ccggcgaacc ccaaggacga 240
 gtaccagcac tggatcaagg acatgcgggtg gagcacga 278

<210> 14241
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H7

<400> 14241

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 agcgacggaa tgctacgggg agttgaaaat aagcatatat ccggagattc ccaaataagg 120
 caaccttttg aactgcctgc tgaatccatg aacaggcaag agacaacctg tcgaactgaa 180
 acatattagt agccagagga aaagaaaagg catatcgaga gactgagcgt gatgagaacg 240
 agaagaagaa agagatagag 260

<210> 14242
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H8

<400> 14242

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tccgaggcgg cggcatccga tgtcatggag ccctcatgcg tcatccacag tggctcggca 120
gagcggtggc gcgcggaggc gtcgcggggcgt ttccagcact acctggaccg cgcggcgccg 180
cacacggcaa aacggggcggc cgtcacgctc gtggacgctg cgggtgtacgc gcttgcggtc 240
tactacgtgc gcagcttgta cgtca 265

<210> 14243

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H9

<400> 14243

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ctccagcgtc gtcggggtca agcccgcgcg ggcagtgccg caggccgccg ccgcctcatc 120
gccggcgaag cgggtgcagc tggccgcgcc cgagggcgcg cgcgccgctc tgctcggcct 180
ggcggcgcgtc ttgcgcgtca cggccaccac cgggtcggcc aaggccacga tcttcgatga 240
gtacctcgag aagagcaagg ccaacaagga gctgaacgac aagaagaggc tggccaccag 300
tggcgccaac tttgcgcgcg cctacaccgt ggagttcggc agctgccagt tcccctacaa 360
cttcaactggg tgccaggacc tcggcaagca gaagaaagtc cccttc 406

<210> 14244

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G12

<400> 14244

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caatacatgc tgcactcttg gttcagatgg caaacttaag ggtaaacata gaaagatcca 120
tctttttgac attgacattc caggaaagat cactttcaag gaatcgaaga ctcttactgc 180
tgggcagaat cctactgttg tagacacaga tggtgggcga attggtattg gtatatgtta 240

tgacatccgt ttccaggaat tagcaatggt gtatgctgca agagggtgctc atttggttatg 300
 ctatcctggt gcattcaata tgactactgg accactgcat tgggagttgc tgcaaagggc 360
 aagggtctaca gacaaccagc tgtttgttgc aacatg 396

<210> 14245
 <211> 229
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-A1
 <400> 14245

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 tccggtanna attatgacgt tgtacctgca agaataatctt cattgngagc atggtgggat 120
 cttactgcaa agttccctat aatgctcttt tcctcctaag gaacacataa caatcctaag 180
 ggtggaagta cttaactcga gacttgngtt atgaacaggt gatgctcca 229

<210> 14246
 <211> 259
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-042-Q1-K1-E2
 <400> 14246

cctgatctgg tcttaagaac cccggtggcg gtttgacata tgcaagggtt aagtgctaga 60
 tatggcgtgt gattggagat cctcagctga gtataatcga ttcggatcgc cgtacctccg 120
 cggttatgga gacttggcca ctgacttaca cgtagcattc cactaaagat gatggggtttt 180
 tgctaagaaa ttggctagtg caggaccagt gattgaacta gggtagaaaag aactctagtt 240
 gcaggtaatt gtacgtaac 259

<210> 14247
 <211> 259
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-042-Q1-K1-E3

<400> 14247

gcgatcctcc acaccagcac ccgccgtcgc cttctattcc cttgcgcacc tgctgctggg 60

cgggtcggtg aggcggagga gtaggatggc gagcgcagcc ggaggcggag cgtcagtgga 120

aggggagtgg cttaaggtat cccacttcac gcccatgggtg gaagcgcagg accccaactc 180

caaggcagtg tacaacctga cgctgcgtcg gatactgcgc gcgcgcgacc acgacgtgga 240

caaggcctgc gacatgttc 259

<210> 14248

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E6

<400> 14248

cgccagcttc accgttgaaa tttctttccc caaggtctta aaatgtgact atgcgatggg 60

tttttaaatt gtggtggatg ctcagcgcct gcagcaacaa ctacaaacac aaccagagtc 120

tcttcctttt gatgaaatcc tctattgcaa tattgggaat cccaatctc ttggtcagca 180

acctgttaca ttcttcaagg aagttcttgc tctttgtgat tatccgtgcc tcttggaana 240

agaagaaacc aaatcattt 259

<210> 14249

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-042-Q1-K1-E9

<400> 14249

ggcatcttcg tctgccagat ctggcatgtg ggcagggtct ccaccaacga gctccagccg 60

gacggcgacg cgcgtatctc gagcacggac aagcagatct ccccgacgc caagtccgga 120

acggcgtact cgaagccgcg ccggctgcgg accgacgagg tccccgggat cgtcgacgac 180

ttcaggcggg ccgcacggaa cgcgatccag gctggtttcg acgccgtcga gatccacggc 240

gcgcacgggt acctcctgga gcagttcatg aaggacagct gcaacgaccg cacggaccag 300

tacggcggca gcctggagaa ccggtgccgt ctcgccgtgg aggtcgtgga cgccgtcgtc 360

cgcgagggtgg gcgcgcgccg cgtcggcatc aggctgtcng ccttcgtc

408

<210> 14250
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F1

<400> 14250

gccccgtact actatccccg ctaccgctag ccgcgcgcgt gctcatctgg tggcggctcg 60
cctggctccc cccatccgcc gccgcgggt cctcctctag ctccctcctt accccgagct 120
ttaagctcgt gctacctgcc tacctatccg tagggagaga gagagagagg ggagaagggt 180
cggtcggctg gtcggggggt ctcggatctc gccgctgcct ccccgtttct tcgttgggat 240
ctcgctcgct tcgcgccatg g 261

<210> 14251
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F10

<400> 14251

ggaagatcag aatttcccag caccggatga actgtttctt ctttatcttc agcttgtaac 60
gaacagtctc catcagggtca gccggtggaa ccattctcaa actttgggcc ctttttgaca 120
ggttgggtctc cttcagagac gagacaatag caccaagtgc aggtttgatc ggatcaaaca 180
tgagcaaacy gaggcagtca acggatgatc tcacatactg cagggtcaaga agcgggaaggc 240
gcgggtgcct ctgcagctcg ccgacgccgt gatggagcca gtacggcggt ccggccgggt 300
cgccaacctc ccggataagc ccgtgtaccg cgagaagggt cccgattttg ggatgaagat 360
taggaggacg tacggatcgg tgagaagaga tctgaccaac cgggtgt 407

<210> 14252
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F11

<400> 14252

gatcacaatc ttccagcacc gcttgatttg cctcctctct atcttcagct cctgacgttc 60

attctccatg gtggccggcc cttgaaccat tttcaaactt tgggcccttt ttcacacgtt 120

ggtcttcttc atagacgaga caatatcacc aactccatat ttgatcggat caaacatgat 180

cacacggatg ctgtcaacgt atcatctcac atacttcacg tcaagaagct taaggcgcca 240

ttgcctctcg act 253

<210> 14253

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F2

<400> 14253

gggcaggagt aggtaaaaca gtactcatca tggaattaat caataacatt gctaaagctg 60

atggaggcgt atccgtatctt ggcggagtag gggaacggac tcgtgaagga aatgatcttt 120

atatggaaat gaaggaatcc ggagtaatta atgaaaaaaaa tattgaggaa tcaaaggtag 180

ctctagtcta tggccaaatg aatgaaccgc cgggagctcg tatgagagtt ggtttaactg 240

ccctaactat ggcagaatat ttc 263

<210> 14254

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F3

<400> 14254

caaaaaaagc aggcgcaatg ggcagcagca ccatggcttt ctctccacg gccttcgccg 60

gcaaggccag taacgtgccg tcgtcgtgcg agttcggcga ggcccgcgtg acgatgcgca 120

agacggcggc caaggccaag ccagcggcgg cgtccgggag cccgtggtac ggacccgacc 180

gcgtgctgta cctggggcca ctgtccggcg agccaccgag ctacctgacg ggcgagttcc 240

cgggcgacta cggctgggac accg 264

<210> 14255
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-F4

 <400> 14255

 cggacgcgtg gggaagcaga agaagcacgc tcacgcgagg tcaaggagct tcaccggcgg 60
 cgggctggcc tccttctca ggtccaccgt ctctctcttc tcctccgcct tcccggccag 120
 cggcaggagg tcctcttca accaccgcaa cgccttctcg ggccccatcg tcgtctccat 180
 cgtcccgccg gaggtcgcg gggcgggcg caggaggaag cgcccggggt acgtgactcc 240
 cgagccgtcg tcgccaagg tg 262

<210> 14256
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-F5

 <400> 14256

 aaaaaagca gccgaatgg cgagcagcac catggccctc tcctccacgg ccttcgccgg 60
 caaggccggg aacgtgccgt cgtcgtccgc cttcggcgag gcccgcgta cgatgcgcaa 120
 gacggcggcg aaggccaagc cagcggcggc gtccgggagc ccgtggtacg gccccgaccg 180
 cgtgctgtac ctggggccac tgtccggcga gccaccgagc tacctgacgg gcgagttccc 240
 gggcgactac ggctgggaca ccgcgggg 268

<210> 14257
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-F6

 <400> 14257

 ctatgtgacg atcaatgtgg tgaccatgat ccaaatcgaa ctgaacatgc tactagaggt 60
 aaaggctggc aacttcttt ttctgtcctt cacagggtaa taatcaatga aaacaagaag 120
 accccggaac aagtttgtgg gacgtcaagc agttctgaca cccagtgct taaatggatg 180

gtatgctgtg aatacttcac acaaccaga gagtgtgaag ctgcaatacc gctacttggc 240
aaacgatgat cgattcaatc acccttc 267

<210> 14258
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F8

<400> 14258

cggtcctgaa gggtcggccc gcgcgtccgc agatcctgcg gcgaattcct tccaactcca 60
ggatcgagag cacacgccga tggcgaggca ccgccgtgcg ccgctgtctc ggctgtctgt 120
cctcctgacg gccctcgcg cctcctgtct ctactacctc ctcttcctgc aggcgcaggg 180
ctccgtcccg ccgcggtacg acgggttcgc ctacggcggc ggcgccgcga cggcctggaa 240
ggacgccgtc ctgctcgagg cctttctcga cccgctctgc cccgacagcc gcgacg 296

<210> 14259
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F9

<400> 14259

ctgcgtcac attcatcccg cgtgctctct ctctctctct ctctcgggcc gtggcgctcga 60
gtgggcgacc gccgccaccc ccgtgccgtg cgctctctct ctctctctcg tgtcgacggg 120
tgggtgggcg accgtaggcc gccgccgccc cctagggcag gtgcccaggt cgaccttcaa 180
cagcgacgag catccaccag atttctacat gagtgtgatc ttcctattgt gaattcagac 240
gcaatcaagt atggcttcaa tggcaatcat taggagaagg aagtatttct tggatcatgt 300
taacacacct accatttcat cgtctgcttt ctttacattc caacatggaa gactcggttt 360
ggaggttgag ccaagaacag aacagcgatt tctcgagcat agttctgggg 410

<210> 14260
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E12

<400> 14260

agcaaggaag aattaacaat aaaaaattgt aacaaaataa aaaatattag aaaagttacg 60
gcaggggaaag aagaggaaga tccgaagatc cgcacaaaat tagattagat cgtgggtttgg 120
tgacttgata agaggggtgg ggtgaagcgt ctatgtcctg cgtgttctgc aggggtgttcg 180
ggaagttcaa tgatcagagt caggcgaccg cgctggcctc gctcgacaag ctcaacgaga 240
cacttgaaat gttgtaaaag aaggataact tgctagttaa aaaggccaat cttgatgttg 300
agaaggctaa gaatthttacc aaagccaaga ataaaagagc cgcagtacag tgcttgaaga 360
ggaaaagact atacgagcaa catattgagc agtttggaat tt 402

<210> 14261

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G10

<400> 14261

agcagcttct gcttgctctg gggggaatga gagagagaga gcgagagaga tctagtagag 60
aggctagcta ggtggctctc gaacgaagat gttggcggtg ttcagcgggc aagtgggtgga 120
agtgccggcg gagcttgtgg cggcgggcaa ccggacgccg tcgccaaga cgaaagcgctc 180
gcaacttggtg gggcgctttc 200

<210> 14262

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G11

<400> 14262

cggaactccc ggggtgctcg atctccatct cgaccgtcgc tcaccgggaa gctacgtac 60
gacgaagcat ggcgtccgtc accgcgcgcg ccccggtcgc agccctgcgc ccgtcgtcgt 120
cgtcggcctt ccttggccac tctagccgcc tcggccgcac tgctaccgcg tcgccgacga 180
ggcggagcct caaggcggag gccaaagggcg agtgggtccc gggccttccc tccccgcct 240

acctcgacgg cagcctgccg ggtgacaatg gcttcgaccc gttgggcctg gcggaggacc 300
 cgagaaacct gaggtggtac gtgcaggcgg agctggtgaa cgggcggtgg gcgatgctgg 360
 gcgtggccgg gatgctgac cggaggtgc tgaccaaggc cgggctgac aacgcgccgc 420
 agtggtaga c 431

<210> 14263
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C2

<400> 14263

cccacgcgtc cggcaaaagc caaaaggcat caccgccgcg acgacgatgg cagcctcgct 60
 gcagagccgc ggccaccctg atgcagccgg ccaagatcgg cggccgggcy ccctttgcct 120
 cgctgccgtc ccgcccgtcg tcgcaactcg cctgcagggc gttcggcgct gacgccggcg 180
 ccgccaggat cagtgctcc ctgcaggacg tcgccagcag gtgcgtcgac gccgcgaagc 240
 tcgccggctt cgcgtcgcc acc 263

<210> 14264
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C4

<400> 14264

cctgcgcgac ggcattctcg cctcccatcc gtttcagct tcccctcca ctccggcccg 60
 cgcgcaaatt gccctctgc ttgtctact ctatacacgc tgccgaccac ggctgccgcc 120
 aaccaccgc cccaccgct caccgctgcc gagtgctagc catttgagc tgccgcgcca 180
 tggcctcgt ggccgccacc accacgtgg caccggcact cgcgccccgg cgccaggcgc 240
 ggccagggac tgggctgctg 260

<210> 14265
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C5

<400> 14265

tataataaca attatatacc catacccttt acatcaaaca tgataaatat caccatacag 60
aacagttatt tatcaaaggt cctaacatat tccactttga catacgtcaa ctatactaca 120
ctcataacta aaaatgaatc ttaatatcct aaaaaacaca aatatatttc taac 174

<210> 14266

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C6

<400> 14266

aaacttccac tatcacttct aaccgaacgc tatttaacac aattcttcta ctacactata 60
cactcttctt acacacaaat tacttcaata cacattccca tacactacac cactaccaat 120
cactaccacac ttcaaactca ctccccatac cactatcatc ctccaccaac aatatctcac 180
caccac 186

<210> 14267

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C7

<400> 14267

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aggggggaggg catcaagaac gccgcctcct ccaccggcaa catcacgttg agcgtcacca 120
agagcaaccc ggagaccggc gaggtcatcg gcgtcttcca gagcgtgcag ccgtccgaca 180
ccgacctcgg ggccaaggcg cccaaggatg tcaagatcca gggggtctgg tacgctcagc 240
tcgagtgatt cgagtgtcta actg 264

<210> 14268

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C8

<400> 14268

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acgaggttgt atggaaagga aggccagaaa gagaagatgc ttccggttgc accaaagcta 120
ctccgcacta tttcgatata ctatctggaa agcaatgaat acgttcttga cagctaatacc 180
acttcgagcg gcgatggttc ttcaaacagt actaagccgc cgatgcaaaa tgctggcgat 240
atgatgaatc tgcaccatgc tacat 265

<210> 14269

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C9

<400> 14269

gccaaatgaa ttcaccaacc atgtcatcaa acctacctcc tatgcaaaca cctgcaagcc 60
gacctcagga acctgagcca attgagtctc aaagctcggc ccagaggata ttgcaagact 120
tgatgatgca atcccatatt aatggtgttg ggccagttgg cagcgatatg aggagagcaa 180
acacaattac tcttgggtctg aatggtgtca actccttagt tggtaacccc atgacaaata 240
accctggaat caatgggatg ggatttgcgg ccatgggtgg ccttgggtcaa caaatgagaa 300
cggcgatggg gaacaacgca ttggcaatga atggaaggac cgtgatgaat cacagtgcgc 360
atgacctgac acagttggcc caccagcagc aacagcg 397

<210> 14270

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D12

<400> 14270

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taattcacgg ccgccggaga tgggacaagg ttcgcccggc gggatgggca agcagccccg 120
cctcccgggc gaccgcaagc agggagacgg caagaaagag aagaaatatg aaccacccgc 180

tgcccccttcc cgtgtcggcc ggaagcagaa gcggcagaag ggctccgagg cggcggcgcg 240
gctccccgcc gtggcgccgc tctcaaagtg ccgccttcgc ctactcaagc tcgaacgcgt 300
caaggactac cttctcatgg aaaaagagtt cgttgccagc caagagcgcc tgcgccccag 360
cg 362

<210> 14271
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D2

<400> 14271

accaaatacta ctccacacta tttctataca ctatctataa agcaataaat acattcttta 60
catctaatacc actttgatct actatccttc ttcaaact actaaactca caatccaaaa 120
ttctttccat atgatgaatc tacaccattc tacat 155

<210> 14272
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D6

<400> 14272

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acaggagcaa cctccttttg acaagaaatc atttgtgtct tacatcaaaa aatacatcaa 120
gaatctcact gctgtgttgg agccagagaa agcggatgag ttcaaaaagg gtgtcgaggg 180
tgcaaccaag tttctcctta gcaagctgaa ggacctataa ttttttggtg gtgagtccat 240
gaaggatgat gcgtctgtgg tatt 264

<210> 14273
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D7

<400> 14273

cgtacgaaag cgttcatgac acagctgtga aggtggttta tattgatgac acattccgtc 60
 tacaggagcg gcctccttat gacaagaaat catttgtgtc ttacatcaaa atatacatca 120
 agaatctcac tgctgtgttc tagccagaca aagctgttga gttcaaaacc ggtgttgagg 180
 gtgcaaccaa gattatcctt agctagctga acgacctgca attttaatgc ggccagtaca 240
 tcaactatga ttca 254

<210> 14274
 <211> 289
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-042-Q1-K1-D9

<400> 14274
 taccacnta ccactccagc gaggtttcaa ttcaaagtag ttctcctcac tcacaatctc 60
 ctctcaata cccattcacc ttaatgccac ctccgacgac ttcatatccg ccatctcctt 120
 cattaccac tcagtcgtca ctaacaactt ttcatcacat acaccaactg acgctaagct 180
 gaatgtgtcc atcaacttat tctgccacat tcatacacaac ttctactgt acttacactt 240
 tctcagcaac tcctctcccc tcaatttcac cgccatcaac tacaccttc 289

<210> 14275
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E1

<400> 14275
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 agaggcttta gctgtaccaa atcacccaag ctcaagtgggc gatgattctc agcaagatga 120
 aagtaaactt tcaagttcca attcttgcac ctactcgata aatgcaaagc tgaagaagtt 180
 ttccgatagg ctctgtaca tcataacgac aggagaccta gatacattct gacctgcagc 240
 taccctgtgaa tatgctccag t 261

<210> 14276

<211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-042-Q1-K1-C11

 <400> 14276

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 cacctgcacc cacgtgacca gtgacacgcc acatcagcat cgcgagcgat cgtacatgtc 120
 tactctcgca cgtcgaccac cacacgacac ctgatataca gagctcggac gcatagacat 180
 gcatgtcgat ctacaggtca cagaaggatg ctgctgatat gtataaaccg aacttcaagt 240
 acgcatgggt gctatacacg ctcaatgctg aactagagag aagtactacc attgatactg 300
 ctatgaggaa gtttgaaacc accagattct actgcacgga cattgatgtc antggacaca 360
 gtgac 365

<210> 14277
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-E11

 <400> 14277

 cgcacggcgg agttcacaat cccacccggc cggcgtagcg gatattgcga gttacgacgg 60
 ggaaggagag gaagatccgt cgatccgcgc agattcgttt cgatcgtggt ttggtgactt 120
 ggtaagaggg gaggggagaa gcggcgatgt cgggcgtggt cggcagggtg ttcgggaagt 180
 ccaaggagca gagccaggcg accgcgctgg cctcgctcga caagctcaac gagacacttg 240
 aaatgttgga aaagaaggaa aacttgctag tgaaaaaggc caatcttgag gtcgagaagg 300
 ctaagaattt taccaaagcc aagaataaaa gagccgcaat acagtgcttg aagaggaaaa 360
 gactatacga gcaacagatt gagcagcttg gaaatttcca gcttaggata catg 414

<210> 14278
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3060-041-Q1-K1-H9

<400> 14278

cgctcgagacc caaccatacc agcggcgccg catgctgacg aggaggcgga gtagagtggc 60
cggactacct cgacacctcc actgcaacca tgggtatctc acgtgattcg atgcacaagc 120
gccggggccac cggtggaag cagaagacgt ggcgcaagaa gcgaaagtat gagcttggcc 180
gccagcctgc taacaccaaa ctgtctagca ataagacagt gaggagggtc cgtgtccgtg 240
gaggcaacgt gaagtggagg gctctccgat tggatacagg taactactcg tggngaagtg 300
aggctcttac ccgaggacc cgcacacctg atgtggtcta taatgcatca nacaatgagc 360
ttgtgaggac tcagactctt gtgaagagcg ccattgtaca agttgatgct gctccattca 420
agcagtggta cctnactcac tatggagtgg acatcggtag gaagaaa 467

<210> 14279

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A1

<400> 14279

agagatatca cagggaacctc ttcaggcttc aaggcagatc cgcagcagat ggaggcgaag 60
agcgggctgc cggaggtgac catcgtcccg gcggcacggc cgttggctgg cgacggcaca 120
gtcgacgcgg caaaggcggc ggcaggcaag gagcccgtaa gcccgggcac tccgtcctcg 180
gtggccgccc gccgcagcag ctgtgaggag aggcgcgcgg tggacggcgt cgccctgcct 240
gggtggaagc tcgacgcctt ctgccag 267

<210> 14280

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-042-Q1-K1-A12

<400> 14280

cccgcgtctc gccgcgtagc ggcgtatgcg ccacagaaac tcgcacgccg ctccccggcg 60
tgcgggccga gtcgcgctcg ctgccgaatc caatccatgg ctccgcccgc cgcacccacc 120

gcgctgcacc accgcacgcc cctcctcctc ccccgccgca ccgtcgcctt gggtgccacc 180
gccaccgcgc gcgcgccag ggccgcttct ctgcgcgtca gggcccagcc ggacaccacc 240
gccgcagccg tctccacctc cgcgcctgag ccggcgcccg agttcaagcc tncgccgggg 300
ttcaaggcgc ccgagcccaa gaggtacgag gtcaagtccg gccaggtggg cagcgtcctc 360
ggcgcctcgc tcgccatccc ccttcgcctc ggcaccggcg t 401

<210> 14281
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A2

<400> 14281
cataatgttc aaggactggt ctgggcagag tttaagcagt attgcctctg atatttgtgg 60
gtgggttact gtgcttactg gtactgatgt actgcattct acaacagaac atgatccaac 120
ccttacttca gatttgtatg ctcatatgtc tccaatatat aggcatatgc attgtaacag 180
tttatcagta ggaaggcgtg tacaggatga ttactctctc cgcactccta tatatgaggt 240
gctacatgac tacttagtgt a 261

<210> 14282
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A3

<400> 14282
aaacgtcgtg gccagccatc ccggtgfcgt cccgcgttct acagccaccg ctgtcgtcgc 60
cgtgctaggc tctagatcc gtcagcttaa cgagctccat tccttcgagg ccagccatcc 120
cgggtgtctca gcagcggcag cagcaagcgt cgagctcttg ctttctgtgg gaggacgcat 180
ggcgatgtct gctgagcgtg ggctcttggt cctcttattc tatgccggcg tagtggctga 240
actcgccttt gtcagaaacg gtcct 265

<210> 14283
<211> 264

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A4

<400> 14283

cacgacttcc gtccgagtct gagctcatct ccacgcgccg ccgccgccgc tcgacgccgg 60
 accgggcagc catggcgga cagactgaga aggctttcct caagcagcct aaggtgttcc 120
 tcagctcaaa gaaatctggc aagggtgaaga agccaggcaa ggggtggcaat cgattttgga 180
 agagcattgg ccttggtttc aagactccca gggaagcaat tgaagggacc tacattgaca 240
 agaaatgtcc attcactgga accg 264

<210> 14284
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A6

<400> 14284

cacgcagata tccaggagct ggaaaacatt gcattagga gaaatgatga agatggaaaa 60
 agatgaagga atttatttgg caatagtcac caccaagttc acgcaataac aaatttggaa 120
 ccacagggttc tttttgcata ccctccagag aagcctcttc cactcaagta caaggatacc 180
 ctctctttct gccttcccg aggtgtacag gttcatgctg tcgaacgtac tccttcgttc 240
 agtgagctga atgaaattct cctggga 267

<210> 14285
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A7

<400> 14285

gtcggccacg cgtccgcaaa cggccaatca atggacatga cgaccccagt gataacaaaa 60
 aagtcagctg gtacagatag atggaaaatg tcatttgtga tgccagcgaa gtatggttcc 120
 aatttgctc gcccaaaaga tccttctgtg attatcaagg aggtgcccag caaaatagtt 180
 gccgttgca gcttttcagg tccataatat tgtacttctg tcatacccat ttcatagctg 240

tatgtgatta agaagctata tattcagagt caagtacat

279

<210> 14286

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A8

<400> 14286

ccgacgccac agcttgtgcg cgcgcaatgg cactcgtgtc cgcttcctcg tcctccacca 60

ccggcgtggc ggcgctcccc aggaatgggc agcagcgggc gtcgtcgtcg ttgttctcct 120

cctcctcttc ttctccttc ctcgtcggca agacgtgct gaggcaggcc gaggcagccc 180

ggcgtcggtt cgccgtgctc gccgcggcgg attccgacag gccgatctgg ttccccggca 240

gcacccctcc gccgtggctc gacggcc 267

<210> 14287

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-B1

<400> 14287

acccacagag ccgcagcaga ctcgcaaggg aaaggagatg gatcgtctgc ccgagtcgac 60

ccggagcgtg aggaagtacg cgtcggaggc cggcgggctt cgcgcggcgc ggcagggccc 120

ccacggggcg tcgctgacgg cgcgcacggc gcacagcatg tccacgacgg cgctgcgcac 180

caagtccaag tcggccgcgt cgctgctgcg cagggtgccc ttcgcgccgc tccgccccgt 240

cctcgccaac ctgcaggagg tgttcc 266

<210> 14288

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-B10

<400> 14288

aaaagattta tgctggacag aaacagatag gcgtattcca gcactccagc tttttggcag 60

gaggtgcaac tatagctgct gggagattta ctgcagaaaa tggagtgatc aagtccatct 120
 gggcatacag cggccactac aaacctagtg cagagaacct cctcaacttc atgaacttcc 180
 ttgaagggaa tggagtcgat ctcaaagaag tcgaggtacg ctcacgcacc agagaagact 240
 acaacgaaga tccagtgcct aatgactcgc agaagttcgc ttcagctacc atggaaccaa 300
 caaatcttcc acagctggtc cccctcttaa acaccacgca aggcaatgaa agcgacaatg 360
 ctcctaagat caagcta 377

<210> 14289
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-B7

<400> 14289
 aagagcaatt atatacccat accctttcta tcaaactga gaaatatcaa caaacagaac 60
 gattatttag caagggtcct atcatattgt agtttgacat atgtagacga tactagaata 120
 agaacaaaaa atgtatgcta ctttcctaaa aaacacaaat atgttccgaa catgagagcg 180
 caacagcata tgacatcttc agcttggcct tcagatggtc gcctgaccac taaatgaacg 240
 ggaagacatc atggtc 256

<210> 14290
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H7

<400> 14290
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 gtgccggcgc ggagcgcagc cactgccaaag cactcggatg gtcagcgcag acgctaccgg 120
 cggaggtaac atggccagca gtggtagggg acccacgttc gtgagccaag tgttcaccat 180
 gctcgaccca tccgggaacg ggctcatggc cgttaccaca cgcttcgagc taccgcgctt 240
 tctatccaac aggac 255

<210> 14291
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-C1

 <400> 14291

 taacaattat ataccatcac cctttacatc aaagatgaga aatatcatca aacagaacaa 60
 ttatttatca aaggctctat catattgcag ttgacatac gtagactata ctacaatcat 120
 aacaaaaaat gaacgttact atcctaaaaa acacaaatat gttctgaaca tgatagcgca 180
 acaacatatg acatcttcag cttgacctat agatgggtcac ctgtccacta aatcaaaggg 240
 aacacattat 250

<210> 14292
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-G12

 <400> 14292

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 ggagaagggc tgcctatatg catgcctgtt cactgcgtgc tgctgcttct gctgcttcga 120
 gacctgtgag tgctgcctcg aggccatctg ctgctgctgc tagttctgct tggagggcat 180
 gggcgtccat catcgtggag atgtggccat gcgggacacc caccgccgaa taaaatgctg 240
 tacttatatg cagcacgtt agaaatgcat tagtgtctgg ttgatgtgat ctttgtgtgtg 300
 tgcgcccga tcttcatttg cactggaaaa tggcttaata attgg 345

<210> 14293
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-G2

 <400> 14293

 cagaaggtga gaagagagag agagagtgtg tgtgatcggt acaaggatca ccgctgggcc 60
 tgcgcgtgct gctggaccga atcgagtcag atcctgtccg aatccgagct aaaggatggc 120

aaccggtagt gaagcctcga aggcagctga ggctgtggtt gactggcata aacacgacag 180
caagaggatg ctccatgcgg tttaccgtgt tggggatctg gaccgcacaa tcaagtacta 240
cacggaatgc tttgggatga aactgctgta gaaaagggat gttcctgatt agaagtacac 300
caatgc 306

<210> 14294
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-041-Q1-K1-G9

<400> 14294

cacagcaatc cacacaagca cttcgacgtc acacggggcg tgcacacaga cacaccaagc 60
gtgggcacca atggcttact accaggaggt ggactactgc tcggaggagg tgaggtcggg 120
ggccccggcc ggcttcggcc gccacggcgg cggcggtccag cagcacgtcg tcaaggagaa 180
gttcgaggag gtcgacacgg tcgcacgcgc cggcgccaac caccaccacc accatgggtca 240
ccacggcggc cacggcttcg tgggtgcgca gaccagngtc gaggaggaca tcaacacctg 300
caccggcgag gtccacgagc gcagggagag cttcctcgcc agggctaact gagcagcccc 360
ggcgggccggc atccacgccc gttcgtgcct gcctgcgtgc cttatgtatg tctgtgattg 420
tgcagggtca tcgtacttgg ctacggtacg tacgtgcacg cac 463

<210> 14295
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H1

<400> 14295

gaatttccgg tggttaactgg atagtggata tcctcctcca tatgttgtgt tgttccctta 60
ttaggttgac cagttgttaa ctgggtgtgg gtactctagg atagattagc cagccgatgt 120
ccaactgagc aaggaatatg cttggacaca ctgatctctc tgatgttaca actcaccctc 180
caatcatatg gtatggatca ctttcttacc taaatatatc ttccaaagtc ttttatatgc 240

ggcatttgat tttttataacc aaattaagat gagtatacta ctgcttactg taagaccacc 300
 tttttgaaaa taatctaatt aactatctct aatactattg gaatatcatt gtctatagat 360
 gttactgatg t 371

<210> 14296
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H10

<400> 14296

gggacttcca ttgacatgca ggtacaattg tttatgtttt tccaagtga ccaatggggg 60
 aatgtcaatc acacttttta ttcaagagta gttcatgtat ttccatggct aagatatata 120
 ggcttacatg tcttcatttc catttccatt tccatttgct ggattcttac taagtaatat 180
 ttaaaggggc attgctgtgt tttttcgta gttacaaaa gattgtttat atgctcattg 240
 atccatcttg accttttgca tgatatgtag cttctcatcc gggagtggcc taatgttctg 300
 tcaactgttg ggggtcttat tgtaatcaag aactgataa tcaccgcaat tgggcctaga 360
 gtcgggttaa ctcttaaaga aagtgttaagg ata 393

<210> 14297
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-041-Q1-K1-H11

<400> 14297

cagattcttg ccaagatcgt ggtcggctgc gtcggagtga actcgccgat cgcgagggtg 60
 atgggtttct cggagccccg gtacgtcggg cacatggcgt tccggggcct cgcgaggtag 120
 gccgacggcc agccgttcga gcccaagggtg aactacatct acggccgagg cgtccgtgcc 180
 ggctttgtcc ccgtctccgc aaccaaagtc tactggttca tctgcttcaa cagacaagat 240
 ccagggccta agatcacga cccacggcg ctcaagaccg aggcgctgga gtcggttcgc 300
 ggctggccaa tcgacctnct ggcggtgatg cgcacacgc tccgatggcg ccgtgggtgag 360
 gacgccgtg gtggaccggt ggct 384

<210> 14298
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H12

<400> 14298

gcttgggttac aaaggaatta aggtagcact tccccgggaa acaacaactg gaaaatgttt 60
catgcaacat tatatagagt ctatcctggg tttacaagag gccagctgca aaacgggtga 120
tgatgggtgc caaaaaaaga ttccatttgt cattatgact tctgatgata caaatgcact 180
aactatcaag cttttggagt caaactctta ctttggaatg gaaccatctc aagtgaatt 240
gctaaagcag gaaaaagtag cttgtctagc tgacaatgat gcaaggcttg cattag 296

<210> 14299
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H3

<400> 14299

accgcctcgc ccgcgcgccg ccgctcccca cctcgccgctc ccgctcctcc tccccgtgtc 60
ctcggcttcc gagtcccgcc gcggggcgca gccgctgccg ggcacgcgga tggtcggcgc 120
gggcgcgacc ggcgggggta acatggccag cgggtggtggg gggcccgcgt tcgtgggcca 180
ggtgttcacc atgctcgacc catccgggaa cgggctcatg gccgttacca cacgcttcga 240
gtccccgcgc ttctcacca acaggactcc tatgtggttc aaaaggatgc tatcacgcgc 300
gaagaagact gaaaatagtc cagtatttaa gttttttatg gatctgaatg atgcagtatc 360
ctatgtaaag cgactaaatg tgccaagcg 389

<210> 14300
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-F7

<400> 14300

agtgcacgta cgcacgcact gggacactag caaccataa cagcgccact ggccagggcg 60
 cgcgtaagc ttgcttagct agccgccatg gccttctct acgtcgtctg cgtgaagccc 120
 gtggatcatca aggggtctcgc ctgctgctcc atcttcggaa ggaagctcga cgtcgccagg 180
 ccgtagggcc gcttcatgct caagccacac acatccgtag tattggacaa gtactgcgac 240
 aagagcgtct actttgacct cgaccacatc ggcaacacca acggacagtg cgacctctac 300
 ggctttgacg cgtcttagcc ctacgatcca ctacagagca agttcttcga g 351

<210> 14301
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D3

<400> 14301

ctggctttcg gcaacgcctt ttaccacatc tgaatctcac ccaccacccc accccgggggt 60
 ggggcaccta atggcgccgg cgatgctgct gaagcggcct gcggcgggag caggggcggc 120
 agcagcgcac accgacacgc tgtccgcgcc tgccgtgcgg aacgcgggtgc gcaccgacgt 180
 aaggagggcc gaggccacgg cgaaagctac cgtcccgccc gacaggggtcc cggcgacggc 240
 ggcatgtccg gcggagatcg c 261

<210> 14302
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D4

<400> 14302

agaaaatcct accgtgctcg attcttccct gcgcgtctcc tccgcttgga gcttccggcg 60
 cgccctgagt cctctgtgg ccggaactcc cttcatggcc ggagctcgga cggcgctcgg 120
 tcctgcggcc tgccccaacg tcgactatct ccagctcgcc cccgacctct tctctccctg 180
 tcgcgtcgtc ctctctctgc tcgctctcct ccatggccgc cgtgggctcg ccggcggtgg 240
 ccttgctctg gccgcgtgg tgccgcgtgc ccatgtgcca gcgcattgcc agctcctctc 300
 cgtctgctcg gtcttcttcc tggagcgagc tctcttctct cccatagcgt ccggcatttc 360

tcctgtgcgc tccttccatg ccgcgctcgg actgaagctt tcc

403

<210> 14303
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D5

<400> 14303

ctcgtggttc cgcgcacggc accgaatcct tcgtattggt cggcccggcg agcatgggag 60
gaagttgtgg ccgcggatcc gtcggcttgc ttcgtggagc ggccaccccg ccgatccgtg 120
cgaaggcgcc gccgcgggtc gtctctatcc gccggtgctg cgtctgctgg gaggaggtca 180
acgggagttc gtcgattcgc cgagagatct acgctcaccg gatctgcgtc atttgagctt 240
caaggtccaa gtgcgggtat tagaagaacg ggtacttaaa tcacaattca tactacaatt 300
aagtgaattc ttcttgagaga taaaaactct tacgatcttg ccaaaacagt aaaggatttt 360
agatcccaac gacctgggat gtccagacag aggtaagttg ggctttatgt taattttatg 420
atgtac 426

<210> 14304
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D6

<400> 14304

gcgcgaggcg gagcggagaa ggggcggcac ttagtgcttc ggaacacaga agctgcgagc 60
acttgtagga ggaccagcgc ctccacgaac gccccccagt cgttgcgctt gcaccgcctg 120
acacctcaga ccaactacgc gcgcaggacg gcacttcgag acacagctca gcgaccacgg 180
gagacatcga gaa 193

<210> 14305
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D9

<400> 14305

ggaagatctt taggaggtgc tgttgagca gttcttgcca aaaacaatcc tgacaagggtg 60

gccggtctaa tactggaaaa tacatttaca tccatactgg atatggctgg tattatgctt 120

cccttcttaa gatggttcat aggcgggagc tcttctaaag gtccaaaact tttaaactgt 180

gttggtcgct ctccatggaa tacacttgat attgttgag aggtcaaaca acccattctc 240

ttcctttctg gattgcaaga tgaactagtc cccctccac acatgaagat gttatatgac 300

aaagcttctg atcataacag aaattgcaga tttgttgatt ttcctagtgg tatgcatatg 360

gatacctgga tgtctggagg ggaccgctac tggaggacaa tccaattgtt cttggatcaa 420

tacgctcctg gagtgcagaa tcatgatgcc agcttcaaaa gtga 464

<210> 14306

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-E2

<400> 14306

gcatccgcag agagtttggt cgtccaggc aactcaaaaa gcgttgcccc gccgcgcgga 60

gggggaagag agcagaggag gatggctcgt acgaagcaga ccgcccgcaa gtccacggga 120

ggcaaggccc cccgcaagca gctcgccacc aaggcggcga ggaagtcggc gccgacgacc 180

ggcggcgtga agaagcccca caggtacagg cccggaaccg tggcgctgcg cgagatccgc 240

aagtaccaga agagcacgga gctgctgac cgcaagctgc ccttccagcg cctggtgcgc 300

gagatcgcgc aggacttcaa gacagacctt cggttcaga gccacgccgt gctggcgct 359

<210> 14307

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-E5

<400> 14307

aaaaaaaaa aaaaaaaat aaaaaatta aaaaaaaaaa aaaaaaaaaa agggaaggga 60

aaaaaaaaag gaaggaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaca 120

aaaagaacaa aagaaaatga agcaaaagag aaaaaaaca cataaaaaaa aaataactaag 180
tactcaaata agacactcaa aaacaaaaca atagaaaacg aaggtaagag gtgaataca 239

<210> 14308
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-E6

<400> 14308

agcgactcag cgagcgagag cagcacacac gcagctagct aggagcagca gcggaggagc 60
ggcgatggcg gcctgcatga tctectcgtc agctctggcg gtggcgctc agggcctgcc 120
gccccctggc cgccgcgcct cctccttcgc cgtcgtctgc tccaagaaga agatcaagac 180
cgacaagccc tacgggattg ggggtggcct gaccgtcgac gtcgacgcca acgggagaaa 240
gggcaagggc aagggcggtg accagttcgt cgacaagtac ggcggaacg tcgacggata 300
cagcccaatc tacaacgagg atgactggtc taccaccggc gacgtctacg tcggaggaac 360
cactgggctt ctgatct 377

<210> 14309
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-E7

<400> 14309

cgctccact acaccacaca gagccgcagc agactcgcaa gggaaaggag atggatcgtc 60
tgcccagatc gaccgggagc atgaggaagt acgcgtcgga ggccggcggg ctctcgcgcg 120
cgcggcaggg cccccacggg cggtcgctga cggcgcgac ggcgcacagc atgtccacga 180
ggcgctgcg caccaagtcc aagtcggccg cgtcgtctgt gcgcagggtg cccttcgagc 240
cgctccgcc cgctctcgcc aacctgcaag aggtgttctt cggcaccaag ctgcccgtgc 300
tattccccgc cgtgccgctc gccatcggcg ccagtgccg gcactttggc caggtgtggg 360
tgtttacgct cagcctactc ggcc 384

<210> 14310
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-E9

 <400> 14310

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 gtagaacatc atctccttag gcgagagaaac ctgtttgtgt ggtgacagga cttccagcca 120
 agtatggttt tctgacctct gtttatgata tcccttctctg ttccttgcat tcacacacga 180
 gtttcaaccc ctccccctctg ttttggtgtt catatatgtt tcattttaat acaagtaata 240
 gattagatag acacaaatcc ttcaatgttt agtagctgca ttatctttga atgtggtttt 300
 tatatgttct ggatcactca gatcgtacca ctaccagtgt gtgtatgac tggaaacccc 360
 gagacatctt gtggctttta ttcttagata ttttaccacg aaccatggaa aca 413

<210> 14311
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-F11

 <400> 14311

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 gtcccgagc tctctgatcg cccgctcgcc tccgacctcc gccctccgcc atggcggctt 120
 tccctccgc ctccccgtcg ccggcgatct ccgctcgcac ctggagcatg gcttccctcc 180
 atacgtccct ccccgcactc cgctccctccc cctc 214

<210> 14312
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-F12

 <400> 14312

 gaattcaccg ggtacgagcc cagcgcgtca cgcgaaaaag tcccgttcg agccttcac 60
 tcgtctcctc tccgctttcc ccgtgccggc ggtgccgtgg tacgggccga accatgaacg 120

cccggcttgc tcagtctaataat gcgcgccccg atcctcgcgc ccgctggccg acagccccgg 180
 cccagcgtc gtcgtcgtcg cctactccca acttctcgcg tcgtcacgga gcaacaaacg 240
 caggatagca ccaggcctcg cgctcgcc 268

<210> 14313
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-F2

<400> 14313

cgcgtcagtt cgttccctcc tctgtgtacc ggccagtaaa atccgaaccc acagcgggaa 60
 agggcgggcg cagcgtccg tccggcgatc ctccgccga tccgcctctc cccctccct 120
 ttgctgccc tcgcgcgcg tgggacaggt gcaccccacc cgcacgcgct ggggcggtgg 180
 ctgcgcggc ccatgtctc ccacgacgcg cacctcacc gcgacgaagt catcgaccgg 240
 atcctcgacg tcatacaagag ccaccccaag atcgaccct ccaaggtgac cccggaggcg 300
 cacttcgaga aggatctggg gctcgacagc ctggacaccg tcgaggtggt catggccatc 360
 gaggaggagt tcaagctcga gatcccagac atgg 394

<210> 14314
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-F3

<400> 14314

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 tcgtgccttt ggagagggtta taccgcaagc aatctgtacc agatatggcc tagcagtggg 120
 tgctaacttt gtatggctcg tacgcattct catggtcatt tgctatccaa tttcttacc 180
 tattgggaag gtcctggact gtgctcttg gcacaatgag tctgcacttt ttaggcgagc 240
 tcagttgaaa gctctagttt caatccatgg caaagaggct ggcaaggcg gagagcttac 300
 ccatgatgag actacaatca taagtggagc cttggacctg accgaaaaga ctgctgcaga 360
 agctatgaca cctattgagt caactttctc actagatggg gattct 406

<210> 14315
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-F5

 <400> 14315

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 ggagcagacg gacgagcagc tgggcggaag ccagctcgac atcggaaggc tcgccttcca 120
 aggcgacgtg ggcgggggct tcaccggcgg cggagcgggc tccggggcct tcggctgtgg 180
 cggcggcaac aagatgctgg accggggcat caacactgtc atcgtgctcg gcgccagcac 240
 ctacgtcttc accaagctgc tcacgtcga ccaggactac tggcatgggt ggacgatcat 300
 cgagatcctg cgctatatgc 320

<210> 14316
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-B4

 <400> 14316

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 ttcgggcacc accacgacaa ccagccgggt cccccggcgt cgggccccaa ccagggtgttc 120
 aagatcttct gccgcgcaa cgagaactac tgcttgccc tccgcgacgg cgccgtcgtg 180
 ctggccccgg tcaaccccaa ggacgaccac cagcactggt acaaggacat gcgcttcagc 240
 acccgggtca aggacgagga atgcatgccg gcgttcgcgc tcgtcaacaa ggccacgggg 300
 ctcgccatca agcactccct cggccagtcc caccgggtca agctcgcgcc ttttaa 356

<210> 14317
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-B8

 <400> 14317

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 ccgcgcctcc agcggcgggc ggggaacat ctggtagcat tgctccagcg atttcattga 120
 ccgaaaaggc cttgaaacat ctgaacaaaa tgagggtga acggaacgaa gatttgtgct 180
 tgagaattgg agtgaaacag ggtggatgct caggcatgtc ttacaccatg gagtttgaaa 240
 atcgagcaga tgccagccct gatgattctg ttgtagagta tgatggtttt gccatagtct 300
 gtgaccccaa aagccttctc ttcattgttg gaatggacct ggactacagc aacgcac 357

<210> 14318

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-B9

<400> 14318

gccatctccg ttgcccagaca gttggaagct gaaggagatc tttgctacgg gcatcgtgct 60
 tggaagctac cttgctctga tgactgtcat tttcttctgg gctatgcaca agaccgactt 120
 cttctcggac aaattcgggtg tgaggctgat caggacagc gagcatgaga tgatgtccgc 180
 cctgtacctc caagtcagta tcgtgagcca ggctctgac ttcgtcacc gttcccgtag 240
 ctggtccttc ctggagcgcc ctggctgct cctggtcacc gcgttctgc tcgctcaact 300
 tgttgccacc ttctctgctg tctacgcaa ctggggcttc gccaggatca agggatcgg 360
 ctggggctgg gcaagtgtgg tctggctcta cagcatcgtc ttctacttcc ccctggacct 420
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<210> 14319

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C1

<400> 14319

acaccaccac cttgtgcacc tttcctttcc atgctttcct tctctcgtct ggaatgtcaa 60
 tatatatagt gcgggctctt ctgtgctgca gtcacgtct tcttatataa tactccaact 120
 actcatgtcc tcagagcctg cctattccat gatataaag cgtcgccgtt ccggtccact 180

gcacggctctg cggatattgc tgtcgaagcg cacagcctac tcttatcaag aaggcacaaa 240
caacttac 248

<210> 14320
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C11

<400> 14320

gtccacccat tccattccac taccacgcg cataattcac gccaacgcac acgcacccgc 60
acggcacatc cagatgatgc tgaggggttc cccgtccccg gccgccgcgg tgccaaccca 120
gctctccggt gcgcccgcga cccctgctcc cgtcgtcagg gtggcgggcg cgcgcggcgt 180
cgctcgcgg gccgctggcg ccgctgagc ggccgcgggc aaggggaagg aggtgctcag 240
cggggtcgtg ttccagccct tcgaggagat caagggggag ctgcacctcg tgccccagtc 300
cccagacaag tcgctcgcgc gccacaagtt cgtcgtatgac tgcgaggccg ccctcaacga 360
gcagatcaac gtggagtaca acgcctcgta tgcataccac tccctcttcg cctacttcga 420
ccgcgacaac gtggctctca aaggat 446

<210> 14321
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C2

<400> 14321

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gccgtgagag ataaagcagc cagtaatcgt gataagtaca ttggactatc atccacaggc 120
ataacatata aatcaagctc agcctcattt ggtagcaact acagttcagg cgaacgttat 180
gggagtttca gtggtacaaa ggaagctgac tcatacgggtg atagttacag ggacaaagaa 240
tctgttaaaa cttccacaag caatagcggc agtcggaaat ttggcagcaa gctgaggaag 300
gatgcgaagc ctgataggag gaatgaggat tatagttcac ccagctcttt gagaccccca 360
tctaatacaa ataacactga ggacgacttt gatgacttcg atcctcgtgg atcaaattggg 420

aaaacaac

428

<210> 14322
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C4

<400> 14322

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aagaagggcc tgggtgctgct ggagttgtgg gtgagcccg gcgggcagcg ctgccgcac 120
gcgctggcgg agaagggcat cgctacgag tactcggagc aggagctgct gggcgggcgc 180
aagagcgaca tcctcctccg ctccaacccg gtgcacaaga agatccccgt gctcctccac 240
gacggccgcc ccgtctgcga gtccctcgtc atcctcgagt acctcgagga ggccttcccg 300
gaggcctccc ccaggctgct ccccgacgcc gcttacgcgc gcgcgcaggc ccgcttctgg 360
gcggcctact ccgacaaggt ctacgaggcc ggcacgcggc tgtggaagct c 411

<210> 14323
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C6

<400> 14323

agctagtgtc taccactgtc gtcattcataa atcacaacga gaaaatgggg gcggtaacag 60
atcaagcagg cagtaatcct gataagtaca ttggactatc atccacaggc ataacatata 120
aatcaagctc aacctcattc ggtagcaact acagttcatg cgaacgttat gggagtttca 180
ctggtacaaa ggaagctgac tcatacagtg atagttacag ggacaaagaa tctgttaaaa 240
cttcacaag caatagctgc aatcggaat ttgacagcaa gctgaggaag gatgcgaagc 300
ctgctacgag gaatgaagat tatagtttac ccattctttt gagaccccca tctaatacaa 360
attacactg 369

<210> 14324
<211> 463

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-C9

 <400> 14324

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 tgggctactg ctcgaggagag gtgaggtcgg tggccccggc cggcttcggc cgccacggag 120
 gcggcggtcca gcagcacgtc gtcaaggaga agttcgagga ggtcgacacg gtctcacgcg 180
 ccggcgccaa ccaccaccac caccaccatg gtcaccacgg cggccacggc ttcgtggtgc 240
 gcgagaccag ggtcgaggag gacatcaaca cctgcaccgg cgagggtccac gagcgcaggg 300
 agagcttcct cgccagggt aactgagccg cccggcggcc ggcatccacg cccgttcgtg 360
 cctgcctgcg tgccttatgt atgtctgtgg ttgactgggt gtgcagggtc atcgtacttg 420
 gctatcgtac gtgcacgcac tcaactcctg tacgaattac gac 463

<210> 14325
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-D10

 <400> 14325

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 tgccggcgcg cgttacgaca agcatatatg ggggagatca ccaatgtcat ggagtaccag 120
 gccatcgcg agcagaagct tccgaagatg gcctacgact actacgcgtc cggcgccgag 180
 gacgagtgga cgctgcagga gaacaggag gcttctcca ggatcttgtt ccgcccgcg 240
 atactgatcg acgtgtccaa gatcgacatg accaccaccg tgctgggggt caagatctcc 300
 atgcccacatc tggtcgcccc cactgctatg cagaagatgg ctcaccaga tggggagaac 360
 gccactgcg gcgcggcggc tgcggcaggc accataatga cactgtcgtc ctgggcaact 420
 tcaagcg 427

<210> 14326
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D11

<400> 14326

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gagcgtaaat atcttcccca gttctttaag ttctctgttt caaacccatt atctgttagg 120
acaaagggttc gcaccatcaa ggacatcaca tatctggaag cctgcataga gaaccataca 180
aaatctaatac ttacatgga tcaagttgat ttgagcctg cccaacaatg gagtgctaca 240
agactggaag ctgatgaaca tccctcaaca gtgaagtctg caatagggga tctctgtaaa 300
caaccgatcc tcatcagagc tgggggagga atatacaatt acctttatca gctaagatca 360
tcatctgatg aagctgggtca aacaaagtct gagggaagca gtatacttgg taaatttcag 420
ataacatggc gtacgaacct ggggtgaacc 449

<210> 14327

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D12

<400> 14327

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<210> 14328

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-041-Q1-K1-B3

<400> 14328

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ggtgacgcga gcgcaagaga gaacaaagct ttgacgcgca cccactcctg ccgcctccct 120
cagtcccgac tcccgaacac gcgcgcgcag gccagcaca gcacggacga cgacgcagcg 180
agaggctcgg aaggaggaaa gagtcgcccg cggagacccc aatcgatcga agggcccccg 240
tcgcttcgcc cgcgaggcat atcagtcccc ccttggccac cgggtaaaaag ctttcctggg 300

ggatacgatc ggctctgagg cctgccacgg atcggagggc ttttgctggt gactccttgg 360
ggatttttcgg tcgngntttg gagctttcct gggtttggga gctagct 407

<210> 14329
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-E7

<400> 14329

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cctcgcgtct gacggtgccg atggaatgta acactttgag gtgctagaat ttctttttct 120
tctcctttac tatttaccct taccatttat ttactttttt ccgtatcgac tcctattttt 180
tttttttttt ccttcttttt attttttttc ttttttttct tttttttctt ttttattttt 240
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tttttttttt tttttttttt tttttttttt ctttttatta tttttttttt ttttttttat 360
ttttttttct ttattttttt ttttttttat tatttttttt tttttttttt tttttattct 420
tttttttttt tttattattt ttcttttttt 449

<210> 14330
<211> 220
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-040-Q1-K1-E8

<400> 14330

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cttgctgcgt gctacaaggc gctcaacgag caccatgtcc tcctggaggg taccctcctg 120
aagcccaaca tgggtgactcc aggctccgac tccaataatg ttaccctga tgtgattgct 180
gagttacacc ttccgtaccc tccataggac cgttcatgct 220

<210> 14331
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-E9

<400> 14331

acggctgcct ccatccacgc ctaaacatac ctttttccat ctacctctcg ctccaatcga 60
tttgatgtac cgcgtcaata tcttcctcag ctctttaact tctctgtttc aaaccatta 120
tctgttatga caaatgttcg caccatcaat gacatcacat atcttgaagc ctgcatatat 180
aaccatacaa aatctaattt ttacatgcat caagttgatt ttgaaccttc 230

<210> 14332

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-F12

<400> 14332

acaacaatcc acacaatcac ttctacctct ttccttttct gcacacatac acacca 56

<210> 14333

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-F2

<400> 14333

tttttttatt ttatttttta tttttttatt ttttttatt ttatttttat ttttttat 60
ttatatcttt ttttttttat tttttttttt atttcttttt tatttttttt tttttatttt 120
ttattattta tttttcttat tttttttttt ttttttttta ttattttatt ataatttttt 180
ttcttt 186

<210> 14334

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-F5

<400> 14334

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ctagactact agtaactccg cttgtcttat tccaaagctg ggcgggcaaa aactaggaca 120
gctcacacca cct 133

<210> 14335
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-F7

<400> 14335

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acagaggaag gaggacagaa aaatggggat tggagatgga tcttcaaatg ggaaccagca 120
actggtgcat aatgaaatac tagatgagac cacaccactt cttccagtca aggttgatga 180
atactatggt ttttattatt aatatttata ttattctttt ttttatttat aattttattt 240
tattttattt ttttaatttt tattttaaatt attatttttt aattttatat tattttattt 300
atatatttta t 311

<210> 14336
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-G11

<400> 14336

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ctcgctcgaa tgacgtcatg tacgacttca tgtccggctt ctgcctccac acccagccg 120
tccagcatca cgtcgtcaac gagaagttcc aggaggtcga cacagttcaa cgctctcatt 180
accaaccacc accaccacca tggtcaccac tgtggccacc tc 222

<210> 14337
<211> 485
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-G2

<400> 14337

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 ggtccatcta taagggtccag cgctgcact tccacgacga catcacccgtc gtcgtgctct 120
 ttctttacaa gtgcatttta gctttcagtt cctgtttttt ttacttttta tctttaçtta 180
 ttttctcttt gtattttttt tatttttttt cttttttttt ttttatattt atttatttat 240
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 ctatatttgt tgtgtggttt tttctttttt ttattttttt tattctttat tttttattct 360
 tatattttatt tttttttttt ttattttatt atttattttt tttattttatt ttattattat 420
 tattcttttc tattttattat tttatttttt tattttaata ttttattttt tttttcttct 480
 ttttt 485

<210> 14338
 <211> 182
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-040-Q1-K1-G7

<400> 14338

caccggtcgg aataccgcc ggcagccac gcgtccgggc caaccttcgt caccctcgt 60
 agccttcttn taaccctggg gcccaaaagc cgcccgagga gnaaggcctg agtacgcaca 120
 agcggccgca gcgtcgcagt ttattctctt catacttcca gccaccgttc cccatgtcgc 180
 tc 182

<210> 14339
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-H10

<400> 14339

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 atgtcttcac ttccatttcc atttccatta gctgcatact tactaagtaa tatttaaagg 120
 cccatatctg aataatttac ccatccaaca aaacatcctt caaatttctca tctatccatc 180

tttacctttc tcattat

197

<210> 14340

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-H11

<400> 14340

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ctctccctaa gctgatcgaa gaggcgcgga taaagatata acctgggtca aaccatctat 120

tatttgatgc atcttcagct attcaacct 149

<210> 14341

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-H2

<400> 14341

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tccctactga attttaacag ttccgtttcc cagaaagggt gcccacccaa ccccccttc 119

<210> 14342

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-H9

<400> 14342

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tccagcaggg gggcggcctg tcggacttgt ccggtctcaa gagctccgcg tcgctgcccc 120

tgcgccgga tgccacctcc gacgacttca tgtccgccgt ctacttcagg acccacgcgg 180

tcggcacgag cggctggccg tggcggggcg cgacggacgc gaagctgaag gtggccatca 240

atgggttcgg ccgcatcggg cgcaacttgc tgcggtgctg gcacggg 287

<210> 14343

<211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-A11

 <400> 14343

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 ctagagcaag gaagcaagta caaaaccaac aggttgaggc tttaatgtca tctgctgctt 120
 ccaacagcat tgttcttgcc ggaacaggtg tgcccaggct gaactctagc ttccggcgta 180
 gcctgagcat tgctactagc atgcatttgg ataatgatgt ggaggaccta gagatgttac 240
 ttgaggccta cttcatgcag ctggatggaa ttcgcaacag aattttgtcg gttcgggagt 300
 atattgatga cacagaagac tacgtcaaca ttcaactcga caaccagcgt aacgaactca 360
 ttcaactcca gcttacactt acgattgcat cttttggcat aactgccaac actttcattg 420
 ctggagcttt tgcgatgaac a 441

<210> 14344
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-A3

 <400> 14344

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 agctgacccg aatagtctgc atggctgttt tccgacacct taggagcttg tttggtggct 120
 taccgtcaga ctatagtgtc gcagaaacaa ccacgtttct tgccaaggct gtttcctctt 180
 gtgtgcgcca tatggaactc agtgctctca gtgcctgtct cgcagctgtt gtctgttctt 240
 cgcagcagcc acctcttcgg ccactcggta gtgcctctgg tgatggggcc tctctgataa 300
 ttaaattctgt 310

<210> 14345
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-A4

<400> 14345

cggacgcgtg ggcgtcgcca gcacgtgctg cgacgccgag aagctcgccg gcttcgggct 60

cgccacctcg gcgctcctcg tctcggggcg gagcgaggag ggcacgcca acaggctgac 120

ctacgacgag atccagagca aaacgtacat ggaggtgaag ggcacgggca cggcgaacca 180

ctgcccgacc atcgacggcg gcgtggagtc gttcccagagc aaggccggca agtaccacat 240

gaagaagctg tgcctggagc ccacgtcctt gaccggcaag gcagatggca tcgtcaagaa 300

cgccccgccc gagttccaga agaccaagct catgaccgcg ctcacgtaca cgctggacga 360

gatcgagggc ccgctcgag 379

<210> 14346

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-A5

<400> 14346

gcgcgggttg cgagttgcag gccgcatgag ctgcgctctt gcaaacttc agggccggcg 60

aggcggtcgt cgttcacacc ggcggttgcc actgccggcg cttgcggtgg caggctgagg 120

ccccgcgag cgtagtggcg tggatctgca actgctccga ctgttccatg cgcggaaca 180

cccacttcat cgtccccgct gtcaagttca agcttgacgc cggcgctgac gagttcatca 240

ccacctacac cttcggcacg cacacggcca atcacacctt ttgcaagacc tgcggca 297

<210> 14347

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-A7

<400> 14347

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tcgtcgaacc agccgaggaa gccaacgcag acccagcgat cctcgtcgag cgctctcttc 120

ccccacggag ggaaggatgg cggagcccaa agcggcgggcg gcggcgagga agacgcgggt 180

gggcccgtac gaggtcggca agaccatcgg cgagggcagc ttcgccaagg tcaagcacgc 240

gcgcgactcc cgcaccggcg ccgctccgcgc catcaagggtg ctagaccgaa cccacgttct 300
 gcgccacagg atgggtcgagc atatcaagcg ggagatttcg actatgaagc tgatcaaaca 360
 tcccaatgtg gtacagctgc atgaggggtat tgcgagcaaa a 401

<210> 14348
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-E5

<400> 14348

cgacgagcag agggcccccc ttagcttttcg gagcaatggc ggcgggatac gtggcgtatg 60
 acaactagcg gactaccttt ttaatgttgt tctttatctg ctactccggc tgtctcatgt 120
 tcaatctgct ctacagcttc acgcgcaact agttcatcct ttagtccaag tccaccatca 180
 tcgttttagtt ttccaccctc tttctccagt ttttctgcat tttatataag tttcttattt 240
 tttatctttc tttttctttt atctatatatt ttctaatttt ttattttata ttttttaggt 300
 gtttttttta tttattttata tttttttttt atatttatat attttatttt ctattatatt 360
 tatattattt tttttatttt ttttctctta tattattttt tatgttatat tattttattt 420
 tattttattt tatattttta tttttt 446

<210> 14349
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-A3

<400> 14349

cggaattccc gctggacgca cgcattccgca gtacgacgtc tctcctctgg gtctttggcc 60
 tagacaccga gcacgtacta ccatgaggag tgtgacgtct cggagagtca agcccatcga 120
 ggagtgtgct tcggagggggc ggtcggagca tacggtggcc gacgacctgg acggcacgct 180
 gctcattttc aggagcgctt ttctctacta ctttcttggt gctctttagt gcctcagctt 240
 tcttttctcc gtgcttttgc tactgtcttt gctctgttgt tttttgttat tatatttttc 300
 ttattttctta ttattttttt ttttttttgt tttttatttt tttatttttt ttttttttat 360

ttttt

365

<210> 14350
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-B11

<400> 14350

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tcttctgggc tatgcacaag accgacttct tctcggacaa attcggagtt aggtctatca 120
gggacagcga gcatgatatg atgtccgccc tgtacctaca agtcagtatc gtgagccatg 180
ctctaattctt tat 193

<210> 14351
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-B2

<400> 14351

tcccggccgc cgcggcaaga ctctctgaat tgtgggtctc cggcgatggc ttctctagct 60
ccatccaaga ttctgggcac gaagggtttac aatcgccggc tcgtcccgct actccacggc 120
agctcccacc gccttgtctc ataatatcgt ctccctcttc t 161

<210> 14352
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-040-Q1-K1-B4

<400> 14352

ccactcatcc tgaccatata ttgttttct acagtgttta ntttgtcct gacgtcctng 60
gaataccgtc tgttttaaat ttgtgtgtc cttaccttac ttatttctt tttttatttt 120
cttttttctt ttctattttt ttctcttttt tatttttttt attttttttt ttttttttat 180
ttatttattt aaattttctt tttttttttt tttttttttt tatttttttt tcttattttt 240

attatttatt tatttttttt tttttttttt tctttttatt tttttttatt tttatttatt 300
 tttttttttt tttttctatt ctttattttt ttattttttt ttatttttat ttattttatt 360
 tatcattttt attttctttt ttcttttttt tttttttata tttttttttt ctattttttt 420
 ttttttttta tttcattttt ttatatattat attttttttt tatttttatt 469

<210> 14353
 <211> 77
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-040-Q1-K1-B6

<400> 14353

attccacag cgaacataaa ccaatccatt ttatatatac atacgatttc tttcngctaa 60
 acaacttatt ataaatg 77

<210> 14354
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-B8

<400> 14354

ccttcattat tattcaagtc gtttaatttt ataccatcaa atgatccact catgaagggtt 60
 taaaacatat gggtcccaaa ccaatccaac ctttttatta tttttattat tattttatttt 120
 tatttttata tcttttatta tttattttta attatttttt ttttttcatt tttttattat 180
 attaattttt tttttttttt tttttctatt tttctatttt tttatcttat tttattttat 240
 atttataata ttattttattc tttttttatt atttttt 277

<210> 14355
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-B9

<400> 14355

gctgcgccat tctcagccgc cgccaatccc ttcccgtgct ccgcaacctc tgagttagaa 60
gaagagatgt ccggcaaggg cgatgggccc gctatcaggc atcgagctcg gcacgacgta 120
ctcttgcgtc ggcgtgtggc agcaccaccg tttctagatc attgccaaact accagcataa 180
ccgaatctcg ctttcgtact accctgagaa ttactactag cgtgcattcg gatattcatg 240
cggaagacct atagatgtta cttgaagcct acttcatgca gatgcatggc atttgattca 300
caattgggctc agtttggtct tatatggatg acacat 336

<210> 14356
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-C10

<400> 14356

gaataatatc caccggcgac gggaacggga gtctgctttg ccggagattc gaagcgattg 60

<210> 14357
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-C3

<400> 14357

tcccgcctga cccacgcac cgggcaccac cacacgttca cggtagcttt tagcttatcg 60

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aattttgata ttgttttatt ctttctttac ctttttttaa tcattttttc ttcatttttt 180

tattttttct ttactttttc attttttttt tttttttttt ttttttattt tttctttttt 240

tttttttttt tatttttttt tctatttttt cttttttttt tttatttttt tatatttttt 300

ttattttttt tatattattg tattttttat ttatttttta ctttttattt tttttttttt 360

atcttatattt tatttttttt ttttatcttt tttttctttt ttttatttaa tttttttttt 420

atttttttatt ttttatttct taattttttt tttttttttt t 461

<210> 14358
<211> 394
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-040-Q1-K1-C5

<400> 14358

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ccactaagat cttgcggtggg ctccttaacc cagctcgtca ctgtaccgct cgtgccctac 120

actctcggtc cgactaacca ataattcatc catccatcta tttatcatct ctcttttttt 180

atatttttac ttactctctt attttttttt tttatttttt attttctttt atttaatttt 240

tttttttatt ttattttttt atttattttt ctttttttat tttatttttt tttttttatt 300

tcttttttat tttttttttt atttttttta tttttttatt tttttttttt attttttttt 360

ttattttatt tttttctttt tatatttttt ttat 394

<210> 14359

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-D11

<400> 14359

aaagaactat gagcacatac gtttgcattt actgccatat ataatgatgg cgatggatag 60

ggtaaaaaatc ttccccaggc ctttaaattc actgtttcaa acccatTTTT tattcttaca 120

atcggttagat cttttattga cagcacctat tctaaagctt caatacataa ccacacagaa 180

tctaaccctc acatgaatcc acttgatatt gatccagacc aacaacggac cactacaaga 240

ctggaagcag atcaacatcc attaacactg aattctgaca tatggaatct ctataaacia 300

cctattcata tcagaacata ttgaagaata tacaattacc ttaatcatct actaacatca 360

tcttatgaaa ctggacaaac aaaat 385

<210> 14360

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-D3

<400> 14360

acaaccaaaa	aaaaaacaac	attaaaaaaaa	aaaaaaaaaa	aaacaaaaaa	aaaaaaacaa	60
aataataaac	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaca	aaaaacaaaa	aaataaaaaca	120
caaaaaaaac	aaaaaaatta	aaacacaaaa	aataaaaaca	aacattaaca	caaaaaaaca	180
aaaaaaatat	aacaaaaaca	aattaaacaa	ataaaaaaat	aaaacaaaat	aaaaataaaa	240
caaacacat	ataaaaaaca	aaaaaaaata	aaataaaaaca	aaaaaaaaaac	aaaaaaaaaa	300
actaaaaaaa	aaaaaaaaca	aaaaaacaaa	ataaaaaaaa	ataaaa		346

<210> 14361
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-D4

<400> 14361

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gtctccgcac	cgtgggtcaga	aggaggtcct	tcaccgtgcg	cgcctctctc	cgcaaggcca	120
cctgcaccgt	cgtcttgtca	atggctgcc	gctctccttt	tttttttctg	tttttttttt	180
ctatgatgtt	tttttttttt	tattttttat	attttttttt	ttttttttta	ttatcttatt	240
tttatttttt	tttttttttt	ttttatttat	tttttcttat	tttatttttt	ttgtttttgt	300
ttttttttat	ctctttcaaa	tttatttttt	tttttttttt	atttttttat	tttattttat	360
tttttttttt	ttttattttt	tatttttttt	tttttttttt	tttttttatt	tttttttttt	420
ttttattttt	tttttatatt	tttt				444

<210> 14362
 <211> 125
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-D7

<400> 14362

aaaaaacaac	agacaaaaaa	aaacaaagga	acaaaaaaaa	aaaaaaataa	aataaaaaca	60
aaaaaaaaaa	aaaaaaagaa	agaaaaaaaa	aatgtataa	caccaacca	ataaatacat	120
caacc						125

<210> 14363
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-A11

<400> 14363

atgaaataga acatdddttcta cttgataatg aagacatgga acatctgggt ctagcaagga 60
 agcaagtaca gaaccaacac gttgaggctt taatgtcatc tgctgcttcc aacagcattg 120
 ttcttgccgg aacaggtgtg cccaggctga actctagctt ccggcgtagc ctgagcattg 180
 ctactagcat gcatttggat aatgatgtgg aggacctata gatgttactt gaggcctact 240
 tcatgcagct ggatggaatt cgcaacagaa ttttgtcggg tcgggagtat attgatgaca 300
 cataagacta cgtcaacatt caactcgaca accagcgtaa cgaactcatt caacttcagc 360
 ttacacttac gattgcatcc tttggcatag ctgccaacac tttcattgct tgaacttttg 420
 ctattaacat t 431

<210> 14364
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-D9

<400> 14364

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 aaacactggt accgttctaa tactgcgaca gcaagttaca tgcatacccc ataattactg 120
 tattaatcta accttcttaa gaatgtacat acgctggagc tcttttaaag atccaaaact 180
 tttaaactgt gttgttctct ctccattgaa tacacttgat attgttggag aggtcaaaca 240
 acccattatc ttcttttttt taaagcacta tgaactaatc aaactctaac tcat 294

<210> 14365
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-E2

<400> 14365

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agttatatac actcaggggt gatgggtccat caatcttcat cgatctcgtc acgacttact 120

ctcgccttctt cttttttcat cacttaccgt gtctatattt tttttttttt ctattttttt 180

taattttata ttttttttac tttttcttta ttttatttat ttcattttat ttttttttta 240

ttttatatac ttttttctta tttttattat tttttttttt tttattatta tatctttatt 300

ttttttttta tttttatata tattttttaat tattttttta tttttttttt attttttttt 360

tatatatttt tatttttttc tttttatttt tacaatttat tttatttttt ctcttctttt 420

tattattttt tttatttttt atattttctt tctttttttt t 461

<210> 14366

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-G10

<400> 14366

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cactaccgct cccactccct tagactttat tcaaaacttt ggtggcctat cacctecccc 120

tcactctgct actctcctcg ttctctctct cctcgtctac tctccacac atctatccta 180

<210> 14367

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-G11

<400> 14367

ttatcttgcc atgtcaaagt tcaattaaac cctcaacgat tttcatcata agaagatttt 60

ctaaccaaat gatccacatt ctacaataaa gttcaaagat ttctaaaaat ctatccaaaa 120

catccttttt taataaacia tatcttctat atattattat aatctctccc tatcaaactc 180

tatacactac catattatta taaattatcc acatta 216

<210> 14368
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-G4

 <400> 14368

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 attccgacta ggcttattac cacacaaccc tattagtctc cctcaaatcg tgtaaacagg 120
 cgtatcttct tagattaatt ggctccaatt cttcatattc accaatttat cccttctcta 180
 taatc 185

<210> 14369
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-G5

 <400> 14369

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 atcgtgatct ccacatttcg acagtttttc tttataaact agctacacta aaaatttctag 120
 gattcaagag aaaactatgt ttcagatcaa tctgttcctt gatgaggcca caagatcagt 180
 atacacatct ctccaccctc aaaccatggg tgttgctgac ttatgctgct catctgttcc 240
 taacacatta ctcttcgtat cctaggtgat tgtcatcata tctcgccatt tcaaataaca 300
 tgtcctacaa cattaccact cacatcttca attcttcttg aatgaccttc ccttaaaacta 360
 cttcaacaat ctctttcagc ttatccatca tttcaa 396

<210> 14370
 <211> 172
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-H2

 <400> 14370

 atattactcc aatattccca ttgttggtcc aaaactacct tacctcattc ccttacatta 60
 ataatctact tcattttact tatacaatgc tatctatcta gaaatgacac tttttttaca 120

tcaatatatt cctttctata tcacaaatca tattacacat cttatactat at 172

<210> 14371
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H3

<400> 14371

cctccgctcc tctctccttc tctcgtctt ctctgtaca ggtacccctt ttcccttttg 60
ctgtccttct tactaccttc tgggggtccc gttccgttct tgcctcccgt ggaatggttt 120
gctcgtatga tcttggttct cgatcgactg cttatccgtt ggctgcatg ctcccgcgga 180
tcttgcttct ctactgctct ggattcctga tcggttgctt atcactgatc gtagtctgt 239

<210> 14372
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H7

<400> 14372

cccactcatc ctaagacaaa aaacaaaccc aaaaacaaat taaaaaaaaa aaaaaaaaaa 60
aaaataaaaag aatttttttaaaa aaactcaaaa agcccccaaaa cttacctacc catccatcct 120
acatcatacc tctacaataa caccacctaa aataaatcca caaccacaaa aacaacaact 180
acataactaa aaaacccctt actaaaccca acttaaacac a 221

<210> 14373
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F6

<400> 14373

attcccgtgc tctaccact cttcctagga agaacatcca aataaacctt aatttcctta 60
tcatccatca atatcaatct ctgatctttt ttcaaaattg tatgtcccta acaagcataa 120
aatcaagcac catcgcttac cagctcaca atactctacc taacatagcc ataacattct 180

agctaataca tcaccaatat caaaatattt ccatactcat cttaaaacac taacaataac 240
tcaaaaaact cccatatatc acaacacccat ctatgtatac ccatatcatc ttcttaactt 300
tacttt 306

<210> 14374
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H8

<400> 14374

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tcacctggcc gagagcctgc acacctttctt ctctctcttc gactacttgg tcgtgccgtc 120
cgactaccgc cacatggaag ggttcggcgt gaacacgtac acgttcgtga gctctgctgt 180
gaaggctcat tacttcaagt tccactggaa tctctacttc tgtattcgggt tcatcctgac 240
tttctatttt tcttttcttt tttcttattc tttctctctt tttttttttc tcttttattt 300
tttctatttt tatttatctt tttatttttt tttt 334

<210> 14375
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D2

<400> 14375

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acagatacaa tacattttctc agctgtcttc atacaatttc cacaacctct catctacttc 120
ctcacttcct tccttctctc aaaaactatc attccatatc atctaatac atcctaaatt 180
atctcaaata ccttcataaa caccacacca catcatacaa tacaactaca cctaataatt 240
acatatttaa ttaacaaaca acaattatac caccacataa caatccctat accttttata 300
taactcttaa taaacattca tacacttctc ataatacccc ttcaaacctt caa 353

<210> 14376
<211> 205

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-D6
 <400> 14376
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 taaaaaagtt gacggccctc acccccacca tcttaatcct ccacacacac aaccttcacc 120
 atcacataat aaatgaaaat atctatcacc tctactcaaa ctcacactcc tacaccaact 180
 accaacacca acaacatata cacca 205

<210> 14377
 <211> 285
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-D7
 <400> 14377
 tcgaagagaa tttgtgcaga tcacaccaga ttgatgaggt gatatgggag cacatcaccg 60
 ataagagtta gcggctatct agttatggat tgactcgctt acagcagaat gaaaaagagt 120
 tagggacact acgccctggg aggttaattt agtatgcaca tgatctcagg ctctcagctt 180
 tcgcctccgt aaatattatt ttatacaaat gtacatccta gatatgtata caaagatcgt 240
 tcatggctta atgaataata ttattttata caaatacctt ataat 285

<210> 14378
 <211> 213
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-E10
 <400> 14378
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 cacaccaccc cccaccaaac gaatcttctt caaaatttcc cccccctat aacccccctcc 120
 cacaaccac accccaaccc ccacccccaa attcccaacc tccatcaaac acttcatccc 180
 atctacatct aatccacccc caaaacacac ccc 213

<210> 14379
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-E12

 <400> 14379

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 agattttaaa aaattttcga ccccccaaca aacaccacaa tctcacctct acaccacacc 120
 tactcatcca cccaacctc acttcaaaca acatcacctc cttcctctcc atctccttca 180
 tctacatctc tacctatcac aaaccttacc accaacatcc atcatatttc tatccattct 240
 ttcactcatt acaataatta tctttacact ttctactata tctttactta ctatctccca 300
 taccactatc cctacctaca actttaacta tcttatcaat tctcacatat ttttcaccaa 360
 c 361

<210> 14380
 <211> 136
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-E4

 <400> 14380

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 tcctgaatgc cacctt 136

<210> 14381
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-F10

 <400> 14381

 ttcccgctcg acccattct tctactccc ttctatctct acctatctct atctagcctt 60
 cctgtatctc ttcagatatg acttctcttg cctccaccac ggcggctacc tctacagctc 120
 ttctgctact actactactg tcactcacct attcatcaaa catctctatc tctttataca 180

cttatattca catcatatta acacttttaa ttct

214

<210> 14382

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F11

<400> 14382

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ccgccgtcag cagccatgga tcttctcgtc ccgcctcgtc cctcgtcggg cggcgtggag 120

cccaagatcc gccaggtcgg cttcttcacc ccggatgcct ccgcgccgtc cgagcccctg 180

ccccccgccg cggtggtcca ggcaccatcg gctcagcata ggccgggtcac ggcgtcgcct 240

ccggcgtcag acgacttctc ccagggggcg ctttcccctg tcatgatccc tcccccgcg 300

catgccgacc acctcgccct gggcccacac ccccgggtg ctgccgacgt cgtcctcgcc 360

acttctgcgc ccgtgcgttc gtccccgctc cttgacatcg tgtccgagat cggcgactac 420

tactcctggt caccgcgt 438

<210> 14383

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F12

<400> 14383

gattcccgt ctaccactt cttcctgaga ccctccact aggctaggta tttaagcctc 60

gggccctctt catcatccat gacttctttc ctgactcctg cctgcacttc cttctatcgc 120

tcgtcctcat tccttacctt ctgttcctcg aatctcctta gtacagctct aacgtcttct 180

gccttt 186

<210> 14384

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F2

<400> 14384
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 ccaacacgtc atccaagtct agctgggtctt ctcttactcc tcttcccttt ccttcccttt 120
 ccatcaccta cttcaattcc accacttctt tccattcttt ctccatccta tcttgaccat 180
 ctgcctctat ctccctcgat ctcttcatta tccattctca aattaccaat tcctttatca 240
 tcactccaat cattctactt catctatcc tcccc 275

<210> 14385
 <211> 169
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H9

<400> 14385
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 tgaatccact aatcaactgct agaacctttt ataacttttg attgacctta acactttctt 120
 ctatctctcc cacaacttat ccattccctc ctactaccct cacattaata 169

<210> 14386
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-A1

<400> 14386
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 gacttccact tcgtggagga ctgcgtcagg atcggcagcc ctgccaagaa caagggtgaag 120
 aaagagcacg catcggtgcc gttcgatgac cagtgtcca tcctggagaa ggaggccgta 180
 aacgtttcac tccataacca taagagctac cccttcttca aggaaggtct ttcactctga 240
 actctcattc tgtttttctc c 261

<210> 14387
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-A2

<400> 14387

attcccatct cgacccactc aatccatcct catcactccc tctccactct ctctccctat 60
ctccttccct ccacactcac tacagtacct cttaaaacat cttaccccct actcaatcct 120
ttcacacccc actccattct cccactacca accccaaacc taacccttaa acattcaacc 180
cccccttctt a 191

<210> 14388

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-A5

<400> 14388

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cattttgcat tccacattgg ggaggctttt ttatcatgtg tcctattcgt gttaagaagc 120
atttgtcacc atttttacca tctcaccag tgattccac tgttgtcttt cctctccctg 180
agaaaactga ccctcttgtc accatttctg ctgctccatg tggatctgct ttgattctgc 240
caatttccta cacatatata tccatgattg tctcacattg gctcactgat tcttctaata 300
tcgctatctt taatgcaaac tacatttcta aacatctaga gaaacattac ccatttcttt 360
ttcttttatt caactttatc atttatttta ttatttatta tttta 405

<210> 14389

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-A6

<400> 14389

cccactcaac caccgcacca accacaccac ccaaattcatt aaccactacc cacaccaaatt 60
catcagaagt ttcttaaaaa aattcacaac cccaacaaac ccaacccac aaaacacaca 120
catcacacca aactcccaat tcatcaccac aaaaaacca aacacaactc ttcccaaacc 180
cccacaaaca aaaccacc 198

<210> 14390
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-B11

 <400> 14390

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 tctttcacca caacctctaa gatgggtttc aacttcggat cgacctgcat ctactttctca 120
 aacttcaaat tctttacaat ccattttcta ctcttcacct tcatcaaacac ttacactgac 180
 ctttattata ctacaccct ctctcactcc acca 214

<210> 14391
 <211> 75
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-B2

 <400> 14391

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 caccataacc actcc 75

<210> 14392
 <211> 102
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-B4

 <400> 14392

 tcacttacct ccctttccta ggcttgctag tccttcaact tcaatgcttc ctaaaccgcc 60
 tccttcacca tctcctacat tcttgacacc tcaaccttct ta 102

<210> 14393
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-B7

<400> 14393
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aactccaaca tcttcttcac agaactctat aaaaagttca ccgcccattc aaaatcacca 120
tcctcacata aaacaccaac ataataaca ataacctcaa tcacaaacta cacaacctaa 180
ttaaataaca catacactca caacaattca tccaacaaat caaatataca caaacatcca 240
c 241

<210> 14394
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-C10

<400> 14394
ataaatcctt atattttcaa atataccaac cttcttaact acctactaaa tccattaaca 60
ctcatcatatc aacctatcta actcaaact cttattaacc aaactaaaat aaatcaaaag 120
ccattcccat aataacctct aactaattat aatcaacct tac 163

<210> 14395
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-039-Q1-K1-C4

<400> 14395
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tgtctacagt ntctttcaac ttcggatcaa gcttccgctg ctgctcaagc tgcaagttct 120
cttcaatcca ttttctctct gtccttttca gcaagaagta ccctgacctt tatgagacta 180
gcaccgcctc tcattccacc ttcactctct tcggttcccc tgataatata ttccctccct 240
tattcttttt attcctcttt attatttttt ttatcttttt attctacttt tatttttttt 300
tcttggtttt tactctttta acttcttttc ttatttatct tcttttttat atttttttat 360
tattttttat ttttttttat ttattttttt tttttttata tctttataat tttaattatt 420

tttttt

426

<210> 14396
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H8

<400> 14396

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ggtatgagga gtgatcttag gaagacaagg tataacaact tcgacgagct ctacatgtac 120
tgctactatg ttgctggaac tgtcgggtta atgagcgtac ctgtgatggg catcgcaacc 180
gagtctaaag caacaactga aagcgtatac agtgctgcct tggctctggg aattgcgaac 240
caactcacga acatactccg ggatgttgga gaggatgcta gaagaggaag gatataat 300
ttt 303

<210> 14397
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-C6

<400> 14397

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gaagatgaat attattctca gctagcgagg atgccgttcc tgaacgtgtc gaccaacgtg 120
aacctgtatg gcgtggactc cttctccatc ctagtctcga actactatat tatcttaatt 180
tatctataaa taccatatat tactttttta cgctttttca tcttcttttt ttttactatt 240
tacatttggt cttttttttt tttttcttta cctcaacttt ttattttttt ttattctttt 300
ttattttttt tcttttttat ttattttttt tttattattt ttttttattt ttaatttatt 360
ttaatttttt tatcattttt ttttttttat tttttattat tttattattt ttaattttta 420
ttttttttat tttttttt 439

<210> 14398
<211> 179
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-C7
 <400> 14398
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 aacacacaaa caaccaaaaa aacccaaaaa cccacctcac cacacaacaa caaaaaaaaa 120
 caacaaaaaa ccaaaaacaa acacaaaacc cacaaacccc aaaaaaaaaac acacacaaa 179

 <210> 14399
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-038-Q1-K1-F6
 <400> 14399
 acctagaccg aagctcgtgt tacactggca acctgagcgt gaatggccgc tattttataa 60
 agtcggccag ccattcggag ggtgatgagg ccacgacacc tgctcctgcc acagagaaac 120
 cgtacatcac tttgctctac cgtcctggcc actactatat tctctacca aagtgaattt 180
 tgcgcatggt tagtttcacg acttcggttg agaaagcaca ctgccagaa aactcgtcat 240
 gtttcgcctg tgtgctgcca aaggtggcaa acttgctttt gagtgcctt 289

 <210> 14400
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-038-Q1-K1-F9
 <400> 14400
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 tgataaataa gaaaagttgc acgatctcga ctaattactt ctgaataact tcagaaatca 120
 tatggaagaa ccatagcatt tcgcgattca ttggtaaatt tactttgatt ctctatagac 180
 caataatgtg agaccattaa cactgttaaa gctaaactgc ttgaagtccg gtcaaaaagg 240
 ggtactcttt ctacaactac attagtatta gtctcgaaat tctttaaact gtaaatatct 300
 agtgtagaat ttatctgata tataactctc atatcgatat aatagtttga actatttact 360

ataatgtcac gcatcccttt t

381

<210> 14401
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G1

<400> 14401

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tctacaggtg ctgccgtcga atcagacgct cagccgcta cccgacctcc tctccccac 120
gcgcacaccc acatcacgtc tgccataccc aacaacgcaa ctacacaaat ctctacccaa 180
agacaataat acccatgact agtttcacaa cttctgttga taaagcacac tgcccataaa 240
a 241

<210> 14402
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G11

<400> 14402

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gcgaagatcg gagagtgggg tggatacgcc ggctatcgtc gggatctgag ggctactccg 120
gaccggctga tcgaggtgaa ggtcacggcg gacaacagca gctgcatccg ctccatctcc 180
ttcatctaca tcggagccga tggcaaaccg tacgaggagg ggccatgggg tttcggccat 240
gctggctcgg agtacaagat tgatctgcgc aggttcgact agagcttgac ggagatctcc 300
aggtccactg cctcatcctt caacatcgac aatctggtct agcctcttat acttttcacc 360
a 361

<210> 14403
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G12

<400> 14403

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ttactccaaa tacacgattt tagtttgatt aattcccacc ccacaacccc ccaccacaat 120

aactttttca atctaattct tcttcaacta cctcctctt taaccaatt aatgattcaa 180

atcaaattct tctctcatat tttcccttta tcttcttctt cttctatctc cattaacatc 240

atcaatcatt ctcttattta catcttcgta tccataatct ccttctttct gtcttatcac 300

acttccttct ccttcaactt catcaccttt tcttccatt tcttcataa tcttcccccc 360

aacatcacca tatccaccta ctctttttac ttccacacct tc 402

<210> 14404

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G2

<400> 14404

ccacgcgtcc gcgttcccag ctgcacattg aggaactttg tcatgccaac ttgtcaaaag 60

acgagccgat ggatatatca aaaatatgtc tcaatactct ctctgctcaa aactgccag 120

aggaagcaag gcatgaggaa agagttattt gcattcctaa tgggtgcaaatt ttggttagaa 180

gtgtccgcgt gaaaaatgat cttgaagaaa attctgtggt tgaggtttat ttccaattg 240

aacaagacgt tggaaaggag gcaacaaggc tcagagctat tacagatctt tttagcaaca 300

ttattgaag 309

<210> 14405

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G5

<400> 14405

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ccctgatgca gccggccaag atcggcggcc gggcgccctt tgccctgctg ccgtccccgc 120

cgtcgtcgca actcgctgc agggcggttcg gcgctacccc ctgcgccaac agaatacagt 180

actcaatgca caaccttttc ggaaggttgc cccgtgagcg gctacttcgg ctgcctccat 240
gaacagtatc ttgcactcgc tgatttacag ctttgtggct atat 284

<210> 14406
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G6

<400> 14406

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gacacgcata tactagagag gctagtaggt ggtcctcgaa cgaagatgtt ggccgtgttc 120
accggccagg tggaggaggt gccggcctac ctgctggcgg cgggcagccg gacgccgtcg 180
cccaagacga atgcgtcgca gctcgtgggg cgcttctctg cgcgtccga tccggccgtg 240
ttcgtgcagc tcgtctacca cggcctcttc gcctact 277

<210> 14407
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G7

<400> 14407

aacacacaca gagagaggac aactcctcac aactctccct tccctcctgt aggggccgaa 60
aggtttagag agtaagagaa gtagttcatt cccttgccca acacaagaaa acaagctctc 120
ctcatcacc taatccaagc aactgcttgt gtgttgggaa attcttgtga cccctgttat 180
attattatcc gtgtagctac tagcttcatt ccccccttg taccatcaa atggctggca 240
tgtctctgca acaccctgg gcgtttgctt tcggtctact aggtaacg 288

<210> 14408
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G8

<400> 14408

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gactgagaaa ctagctacac gaaaaattct aggattcaag agaaaactat gtttcagatc 120
aagcctgtcc ttgaggaggc cacaagagca gtatacacag ctctccaccc tcaaaccatg 180
gttgttgctg acttaggctg ctcatctggg cctaacacat tacgcttcgt atccgaggtg 240
attggcatca tagctcgcca ttgcaaagaa catggccgac aacatgacca cccacag 297

<210> 14409
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H1

<400> 14409

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ggtatgagaa atatgaggac aaggttgatg cttttggtga gaaggctatg actgaactga 120
agaagtatta tgccattttc gatgagaagt gcctatcgaa gattccaaaag ggccccctta 180
aggataagaa gcactagatt ggtagtaagg tatttgctat gaatcaacat ctacattatg 240
tcactagctg tcacctcttt ctctgaagga tgggtgcttg tcttgggtctc t 291

<210> 14410
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H11

<400> 14410

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ttaaaaacat ccacccacca tcaaaatcca tactcacacc aaaacaataa cacaaatcca 120
aactacaaca tacaaaataa actaaaaa 148

<210> 14411
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H12

<400> 14411

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ggcttaatcc agatgtctaa gtctgccact tgtcacttca cctgctacta gcacctaaaca 120

gagagatgtc tgctaattctt cgagtctgca tcttgctagg ccatttctag ctttcttgcc 180

ataattacac agtgtctctt ggaaaatacc attcagatag catgtactct acaccatcat 240

ctgtctccat atttttctgt tatactacca tatatcactc tatcacatac attctactac 300

tgtctcttac cttttctact gcatacatgc caccatcgca tcaaaccac tcactaatat 360

acatct 366

<210> 14412

<211> 251

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-038-Q1-K1-H2

<400> 14412

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attaaaaata ttagcccacc tataatactt ttactcaaaa agctatcact aaacttaata 120

aatattatac cattttctat tagaatttcc tatccaatat tccaaaattc cctattaatg 180

ataaaaatca ctaaattctt aataaagtat tttctattaa tcaacatcta cattatatca 240

ctagctatca c 251

<210> 14413

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H4

<400> 14413

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gcgtccgacg ctgagcaacc aggacaacga cctgcgacga ccctccgagc acccacgaga 120

tggtcgcgga ggctgcgcg ttctctcat cggcgatctg gtcgtgtcac cgcgacgaga 180

tcaccttoga ccgcctccac aagttttgga gtgcctgtc acctcatgca cgacatgagc 240

tgctaagact tgataaacag acccttattg agcatgctcg caagaatttg cactgttcaa 300
 ggggg 305

<210> 14414
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H5

<400> 14414

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 ctaacatggg ccagattgcc tctgaacata actaccagat cactggtggt atggatagtg 120
 atcaaagaat catcttttca gaacagatcc gtggtgcagt agaacaatca gctgcacaag 180
 ctaaaagtgc aagcattgac tcagtggagg cagttaagca caaggagggc atatggagcc 240
 atctatctac aatctcaagg aataagttac ctccaaaagt tgaagag 287

<210> 14415
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-F5

<400> 14415

gaggcatcgc ttgggctttc ttgatgcgat ttcagatatt gggagaatac taccctggag 60
 ttactgatgc ttggatggaa gtagtggctt ctcaaggga gtccttgcta tctgttgacc 120
 tctcttgctc ggatgtcact gatagtggat tcaatcttct taaagattgc tcaagcatgc 180
 aaagtttgtc atgtgattat tgtgatcaaa tctcagaaca tggacttaag acattatcag 240
 gcttttcaaa cttgacatca ctgagcatta 270

<210> 14416
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H6

<400> 14416

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 actaacatgt atcagacagc ctatcaacat ctctactaaa ttactgggtcc cttecgatcga 120
 gctctaacaa taattttcttc ataacatata catcctacaa tcaaacattc agtccacac 180
 gacacaagta caatcatagc ctcagtaaata acaattaaac acaaggaggg catatagacc 240
 catctatata caatcttacg tactcaatta ctttcaaaat 280

<210> 14417
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-038-Q1-K1-D12
 <400> 14417

gtcgccatgt acgaccagaa cacgcagcgc agacgtggct tcggattcat cacctgtgac 60
 tgctaggacg ctcttgacca cgtgctgcac aagaccttac atgatctcgg aggcaagctg 120
 gttgaggtga agcgcgcatt gccccgtgag gcgaaccact gaggtctctgg tagtgaccgt 180
 atcagagcga gtggcagtaa ccagaacagc aatggccgtt acaccagctc agatagctac 240
 gatggaagaa gcgatcgagg ctggtaccga catgctcagc aagttattga actcgcacatca 300
 tgactacagt gctgaggcag actcatatgg atatgatgc 339

<210> 14418
 <211> 281
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-038-Q1-K1-D3
 <400> 14418

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 tcttcatgtt cgcttcgccc aggttcccga agctactgat ttccgcaaca cggatgctgc 120
 acgtgagatt atgagaggta tataaatgaa acctatttct gtcttggttag gatgacaatt 180
 gttgtccaat tgaagggatt cgagccaaga ttggcaattg ttgtccaatt gaaaggattt 240
 gagccaaatc ttgggtttta tactggaaat gaatagcttt t 281

<210> 14419
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-038-Q1-K1-D9

 <400> 14419

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 tagacttctg ttgaaattgt taagcacgga acagaaatag ttcatagagc tgtcaccaaa 120
 tcattccagt ccttacatga accttacaaa gggaaaattg tcggtctgtt aatatccaca 180
 tttgaggctc cataatcctt aggacccat 209

<210> 14420
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-038-Q1-K1-E9

 <400> 14420

 aaaaaacaaa aacaaacaaa caacaacaaa ccaaccaaca caaaaccaa ctttaccacc 60
 aaacccaaac caaccccaaa aaaaaatcaa aaaaacccaa aaccacccaa caaaaccaac 120
 acacacccca cacaacaaac acacaaccaa caccaacccc accatcaaaa cccccaacc 180
 caccaacaaa caccacaacc cacccaaaca caaaacaacc acacactaac acccacacca 240
 aacaccccaa accaaacccc cccaaaacac caacacaccc aaaccaccca aaaaca 296

<210> 14421
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-038-Q1-K1-F4

 <400> 14421

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 cctgtcgtcg tgtccacgcc ctcagcgaaa ccctagcact cggtcgcgca caggcacaac 120
 gcagcgcact cgcgccgtcg gcattcagcc gtcgcggact cgccgcccac ccagggtccca 180
 ggctgggaga gtggcagaca cccactccgc cactcgtcct cagccaccga ccaccgtccg 240

tggttccccg ttgcgcacccg gccaccgcca gtccaccacc ctcccggcgc gccgtgcccc 300
tacttc 306

<210> 14422
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A11

<400> 14422

taaaaaaaaag ctagaccccc caacaaacaa caccaaccac ccaaccacac tacaccacaa 60
caccacccca aaaaaacacc aacaccccaa cccaaactaa ccaaaacaac cacaaaaaaa 120
ccccccacac caccaaacac caaccccaac accccaaacc ccaatccaac ccacatacac 180
aacacaacct acccaa 196

<210> 14423
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A3

<400> 14423

ggccaagatc caggacaagg atggcatccc ttcagaccag cagcgggtca tgtttgctgg 60
gaagcagctt gaggacgggc gcacgcttgc cgactacaac atccagaagg agagcaccct 120
ccacttggtg ctgcgcctca ggggagggcat gcagatcttc gtgaagacct tgaccggcaa 180
gactatcacc ctgcaggtgg agtcttcaga caccatcgac aacgtcaagg ccaagatcca 240
ggacaaggag ggcattcccc cagaccagca gcgggtcatc 280

<210> 14424
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A6

<400> 14424

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gccaacactt atcctcaact ccagctcgcc cagccctct ctgtttgtgg cgtgctccag 120
 tttcccatgg cgctgggtcct caacctctag gcaccagtcg cccctactcc ctgctcctgt 180
 tctcccatg gtgtcccagt caagtttgcc ctagccctct ccctcttggt tctttgctgg 240
 tcacgctcct ctccatgggc gccaggtct cttcccgtg gtggcagacc 290

<210> 14425
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A8

<400> 14425

gcacaccaag gagagtacgt ggaggagcag ccatggcttc atcgggtggcc gccgcgggga 60
 gcacattcct gggcaccgc ctggcggacc cggcgccaca gaacgggcgc atcgtggccc 120
 ggttcgggtt cgggttgggc ggcaaggcga agcctgctcc gaagaaggtg gcgaagacat 180
 cgacctctc tgaccggccg ctgtggttcc cggcgccgt ggcgcccgac tacctggacg 240
 gctcgctggt cggcgactac gggttcgacc cgttcggtct cgggaagccc 290

<210> 14426
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A9

<400> 14426

acccacccaa aaaagatttc aaacaaaacc cccccccccc accaacacca ccacaccacc 60
 cccccacca ccacccacc cccccccccc ccccatata accccaacc cccccctccc 120
 cacaccacc ccaaaccac caccacacca cccccccca ccccaaacc caaaaaccac 180
 acacacacc ccccccaac 199

<210> 14427
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B11

<400> 14427

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ccgcctactc ctctccaatt ctactttacc aaccgcatca gcgagagcta gactgataat 120

gaccacttca ccttcctcac tcataacctc ccatctctac tacctttaca actctcaaac 180

acattttttc tataatcaat ctatataata tcatttccat tttaatacta ttataatatc 240

catatcattc tttcttcttt taccatattt ctttttttta ttcttttatt ttttttttat 300

ttttttctat ttattatatt tttattctgt ttttttttat ttttttcttt tatttatatt 360

tattatatat tcttttttct atttattttt tcttcattat tatatatatta tatttatatt 420

aatatttttt tataattttt tatatttttt 450

<210> 14428

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B2

<400> 14428

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aggagaatgc tccttgcata gtgttggttg atgaaattga tgctgttgga aggcaaagag 120

gtacaggtat tgggtggtgga aatgatgaaa gggagcagac tctcaatcaa ctactaactg 180

agatggatgg tttcgagggc aacctggaa ttattgttat tgctgccact aaccgggctg 240

acatattgga ttccgcttta cttagacctg ggcgttttga tagacaggtg tctgtcgacg 300

ttcctgatgt acgtggaag 319

<210> 14429

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B3

<400> 14429

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tgtccatggg gatattctgtc ttctccggcg aggttatatc cctctgccgc aggcttggtt 120

ctagggttagc agcgctaggc gcttgagagt cattgcaaga gagagagatt ggtttaataa 180
 tatattcctc ctccctttgc ctctgcgta caggcctata tataggccac cggttgacca 240
 actaggcaac cactaattag gcaagtgact aattggaatt at 282

<210> 14430

<211> 111

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B4

<400> 14430

actgaaaacc ccttcattac ccaacttaat cccttcacca catcccactc accccatcat 60
 ccatataact aaaccaccca caatccccta cccaacaatc ctcaactcaca a 111

<210> 14431

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B6

<400> 14431

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 tgctgaaact cataaagggt gtctatgagc accatcctcg accaaaacag ctcatagtag 120
 agaatgacct ccctcagaag ctacagaacc tcattgaaga gcgcagggat ggacaacggg 180
 gcggccaaca agtggttggtc aaacaaatgg ccacctcatt gctgaaagcg ctgcacatca 240
 atacagtatt gtgatattgg tggatcatat gttttcctct caagttgtat atg 293

<210> 14432

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-C1

<400> 14432

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gtgccc aaat taacattggt acctagcctg agacctaccc atgcttgatt tctctactgc 180
aagttt cact ttcttgcaca cgtgagattc ctggttaacc aacgaccatt gaagaagcag 240
ctcgcagaat tggttcaatc cagaccacat atgctagaag aattgaaaa 289

<210> 14433
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H9

<400> 14433

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tcggcgatgg cggcgactat cgaaggcgtg aaggcgcgcc agatctttga cagcctcggc 120
aacctacag tcgaggtcga cgtgttttgc tcagatggaa cctttgcaag ggcagctggt 180
cccagtggag catcaactgg tgtatatgaa gctctggagt tgagggatgg tggctctgac 240
tatttgggga aggggtgtct caaggctgtg aacaatgtga attctgttat tggacctgct 300
ctgattggca aggaccctac agcacagact gagattgata acttcatggt tcaacaactt 360
gatgggacca aaaatgagtg gggatgggtgc aagcaaaagc ttggtgctaa tgcgattctg 420
gctgtgtcat t 431

<210> 14434
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-C4

<400> 14434

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ttaaccaatc ttagcctggc acctactccc caatcgcaca tgaagttcct aacggcacac 120
actcggccaa ccgagacgac acacgcggt attagaacgt ctcatactat aaacctaaac 180
acaggcatca ctaacttact atgccaaaaa ttcttctata acttcaaaca agagaactta 240
tcaaagcatg tacacaaaca aaatatcaat acacaat 277

<210> 14435
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-038-Q1-K1-C8

 <400> 14435

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 tccatgctcg cctcgagatc ttagcgggca gctccggaga gcgccgacga gccccctgat 120
 ccctcctcgc cgcgcgccgc aaccgaccgg gggaggagag gaggggaggg gagcgatgga 180
 gaccgccgac tactccggga agctcttcgt cggcggcatc tcatgggaga cggacgagga 240
 ccgcctccgc gagtacttcg gccgcttcgg tgaggctact gaggccgtca tcat 294

<210> 14436
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-F11

 <400> 14436

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 catagctctg ccggtggcgt catgaacttc cgctgccct gccgctcaga ctatgccgct 120
 gtaagtatcc atacaatgcc atggatgcc gaacaagggt cggaatgcgc tcaaccccat 180
 ctcatgctg cagcagctct ctacctacgc ctagtatcac acgatgactg taactatctc 240
 actggacacc tactcgctca tta 263

<210> 14437
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-F4

 <400> 14437

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 tatcattact caaatactta atctatacat ctatcttcac cccctttctt attcttctc 120
 tttatatata ttttcaccta atctatcttt gcaaaatc cttcatctct tacctctatt 180

cttatctcct cttccttcct ttcacctcca ctttcatatc tatactatct atatattaaa 240

<210> 14438
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-G10

<400> 14438

tcccgctgga cccactcatc cggttcctaa tgggtggttc ttggcttgtc tgactacaat 60
tcactcaaat tgaagataga acttattcac acatatggca ggcacagcaa tcaaagcacg 120
aatctgacgt agactacgac caccacgctc ataacaacca aacctcccaa ataccatcca 180
ctaactaaag ggaagggtcaa tactctaata acatcatcgc ctagtaccat gctatcaacc 240
ccaactgccg ccaccatcac catactccac gatctcttac ttcacctctt ctactccatc 300
attcagaatc cttcctcctc tatccgact 329

<210> 14439
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-G9

<400> 14439

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gggtccactt actacctcag ctcacccctc caccttccgt cttcttccgc ctttaatcac 120
gccctctca ccattcacat gactcaactt aaatcctacc catccaacac gtcctctacc 180
actacatacc acccctaccg cactcccttc ctgggccac tcttccacta accacccatc 240
tacctcacta actatttaac catctactac atactattca cctaccttct ttcatccaac 300
ccacaaactc tcacacacaa cctacatctc catgtaatcc actcccactc agacattctt 360
gtcactct 368

<210> 14440
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H10

<400> 14440

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tttactaata ttgaaccttc acaacaacac ctttttacac ttcatcatta actgacgtat 180
attaacctct gaacttcaag gataacatct ccgactattc tcttaaacct gtctccaacg 240
ttataaacia cttcaattct attattaaac ctgctctaatt tttcaattac cctacttcac 300
atacttacat ttataacttc atgtttcaac atctttattt taccataaat tactttatat 360
ttttcattc 369

<210> 14441

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H12

<400> 14441

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aatctttatc tctttcatct accctattct cttctcttac ctcttccttc tcttaattcta 120
ccaaatattc atttaattta taaattacat ttataccttc ttctaatacc ttttatccaa 180
atttcaattc tttcttcaat cttttttcca aaaatatctt atacttttct tctcatatt 240
gatataaaaa ctttc 255

<210> 14442

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-037-Q1-K1-H2

<400> 14442

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atggagctcg ccgagccctc ccgagtcgag gccctgctc ccagcgtcac gatccccagc 120

tctctgctc actcggtgc tcgcgcgcgc gccttgctgc tcgcccgtcc gcgcggcact 180
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 ggacgggttt tcccatggcc ggcgatgctc cagtcctctg cgcggcggta ctccctgccg 360
 agcacctncc agccgaggcc cttgtcttcc atg 393

<210> 14443
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H7

<400> 14443

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 tttttttttt tttttttttt tttttttttt tttttttttt ttttttagat cttaaatcat 180
 tttttttt 187

<210> 14444
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H8

<400> 14444

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 cgttggtctc ctctctctcc tcttctctct tcctcgtcgg caagacgctg ctgaggcagg 180
 ccgaggcagc ccggccgctg ttcgccgtgc gcgccgcggc ggattccgac aggccgatct 240
 ggttccccgg cagcaccctt tcgtcgtggc tcgaccgcag gccttccggc gacttcgggt 300
 ttgatccctg ggg 313

<210> 14445
 <211> 296
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-C1

<400> 14445

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gctctaactc cctaacgtgt gtcggttctg tcttctagca tattctcttg ttgctatctt 180

ggattcttac ttatattctt tcattcataa ttcctcacac tttatcttct ctccactgtc 240

ttttaacca atctctatta ccaattgttt gaatcaacag ttccttttct tactat 296

<210> 14446

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-C10

<400> 14446

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caccatggcc ctctctcca cggccttcgc cggcaaggcc gtgaacgtgc cgtcgtcgtc 120

cgccttcggc gaggcccgcg tgacgatgcg caagacggcg gcgaaggcca agccagcggc 180

ggcgtccggg agcccgtggt acggccccga ccgctgctg tacctgggac cactgtccgg 240

cgagccaccg agctacctga cgggcgagtt cccgggcgac tactgctggg acaccgcggg 300

gctgtcggcg gaccgggaga cgttcgccaa gaaccgggag ctggagggtga tccactcccc 360

ctgggccatg ctgggcgcgc tcggctgcgt ctccccgag ctgctcgc 408

<210> 14447

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-C6

<400> 14447

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ttttctctt tttgttcct tggctgtatt aaaattacat gtggttgaag tcatcaatag 120

aacccccacaa ttttttgggt cctacttatt ttcattgtct tcggaatagt ataataattt 180
aatattggaat atctgccaat atcttgggaa aatctaagtt aatgattaat aagataaaga 240
atztatgaag gatattctca tattgactca atacaaagat aagtatattc aaaatctatc 300
ccttttttagt taaaggatat ctacatctga gcatcccata atatctaata aatacaaaat 360
cgaatatctg ataatccctt atgaaagaaa ctgaatacat tctttttaata 410

<210> 14448

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-D10

<400> 14448

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gatcctctgg ctgctgcgca acagtttggt catcctcatc cccaatctca tgtgtccaat 120
acacagcaaa agatgcctcc ttattgaaac tggttggcat ctgcaacaga cgcttcctgt 180
tagttccaga ggcactgcca aggatctccc cttcatgag gtcatatatg caggccctga 240
agttgtccat gctcttatga tcttgagagt cgaggcttat gaagatcaga atttcccagc 300
tccggatgaa ctgtttcttc tttatcttca gcttctaacg aacagtctcc atcaggtcag 360
ccggtggaac cattctcaaa ctttgggccc tttttgaca 399

<210> 14449

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-D4

<400> 14449

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aatcactgct ccttccatct ccgcattctt taatacgagg ggggccgatc tccccactgc 120
tccgataacg gtctccccag gaggtgcaag gcttcttctg gcaggacatt aaacacctca 180
caaattccgc ttgtctcgag ccatccacat gtgtatgacc catgtgatga ttcctttacc 240
cttgtttagat tcaactactct caaacaaggc acaactcttg acactacatc tcaagggtta 299

<210> 14450
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-D7

 <400> 14450

 gccacggcca aagcagagca ggagcaggcc gcgcggaacg agggaagcag catgccggtg 60
 gactagggag cggtcggcgg cctcggcggc ggagggatgg ggcgtggggg tgcggtgatg 120
 gaggacggcg acagggagga ggggaagctat ccgacgctgc tgcagcgggtg gtcctcgtcg 180
 gtgtgggccc tcagcggcag cgggcgcctg ctgtgggccc gcaacgaggc gtggcggacg 240
 cacgtcggga tggccctcgt tcaggtcgcc tacggcgggt accacgttct caccaagtcc 300
 gtactcaacg tcggcatgaa ccagatcgtc ttctgcgtct a 341

<210> 14451
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-D9

 <400> 14451

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 atcttaccaa tatttggcag gcagataaaa catttactaa ccaattcaca tatcaatcaa 120
 ccacttctga aaacattcct aactttactc aagaaaaacc ttatcatact gataagatac 180
 aaaatttcat aaacatacct cacaattcat gaataaatca ttgatcaaat agacctcctg 240
 caaaagaaac tcaaacaact ccaaatagat aaccttaatc actactataa tatctcttca 300
 cctatacaaa t 311

<210> 14452
 <211> 172
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-E10

 <400> 14452

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tcaactcact tctctctctc cttcatctca ttaatcttcc cattcactca atctaccaca 120
cctcaatttt tacatccata cactcattaa aaaactcaat ctccatccat cc 172

<210> 14453
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-E11

<400> 14453

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ccttttaacc caactcctca tatccaatcc tttttcataa actactcatc cttttttcca 120
acttcccttt cctacattaa tccatttacc ataatctgtt caccttttac acctaattct 180
ttataaatac tacctatctt ttactgaatt ctatcctcct tattttcaat ctccctctct 240
ttctcaccta acacctctca atctcactac tcttccaaca ctttttcctt acctcctgct 300
taaccaatta caacattttc tatcccttaa tcatataata taactcttac ct 352

<210> 14454
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-E5

<400> 14454

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tagctttggg ataccaacta agcgatcagc attcaggaac acgggggtga tctttcgtcg 120
ttaaccccc atgtacatgg cttttttgag gtgggatagg aatggcggtt gtgtttccca 180
tgaccattct ttgtacgtca tgaagctcat cttcaggatg ctcttatata tagagaaatg 240
ttattcacat cacatctcgt tttcatactg tatagcgaat cttaac 286

<210> 14455
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-E9

<400> 14455

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gtatccaaac tacgtcatct catgttaact accacttctt attccacaac ctcacactta 120
ccacatacca ccaactccctc cacaacacct tcatcaccta ccaccaactc ctccaatcca 180
atatcattct ccatcataat actcactaat ccctcctctt ctactctcat caccttctcc 240
a 241

<210> 14456

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H5

<400> 14456

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cttgactggg acaagggccc aaccctactt gaggctctgg acttgatcaa tgagccaaag 180
aggccttcag acaagcccct gcgtctcccc cttcaggatg tgtacaagat tgggtggtatt 240
ggaactgtcc ctggttgacg tgttgagact ggtgtcatta agcctggtat ggttggtact 300
tttgggccta ctggtcttac tactgagggt aagtccgttg agatgcacca tgaggctcta 360
caggaggccc tttccggtga caatgttggc ttcaacgtga agaatt 405

<210> 14457

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H7

<400> 14457

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tagtgtcatg tcattctatc aggactctga ttgatcaaat caccgtacat gcacccggcc 120
cgcagtgggc gtgcaccacg agcgtggact tctcgctggc gcatctgatc caggtgatca 180

tcctgctgag caccgtcggg gccaacggcg gcggctacct cgcctccaag tacgtcgtgc 240
 ttgccatcta caccgccatc ctcgtcgtgc acggcctcat caacagcctg cacatccagt 300
 ggctctcctg gttcggacag ctcggagcct tgtggaacgt cgcgggctg ttcgtgctcg 360
 tcatcctggt cccgt 375

<210> 14458
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-036-Q1-K1-H8

<400> 14458

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 gctcagatgg aacctttgca agggcagctg ttcccagtg agcatcaact ggtgtatatg 180
 aagctctgga gttgagggat ggtggctctg actatttggg gaagggtgtc tccaaggctg 240
 tgaacaatgt gaattctgtt attggacctg ctctgattgg caaggaccct acagcacaga 300
 ctgagattga taacttcatg gttcaacaac ttgatgggac caaaaatgag tggggatggg 360
 gcaagcaaaa gcttggtgct aatgcgattc tggctgtgtc attagnctgt tgcaaagctg 420
 gggc 424

<210> 14459
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H9

<400> 14459

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 tctctgctgc tgccgcccc caggtacttg gagttggcaa tggagacaat cacatgagaa 180
 tcatccagga ggacatcatt gagacagtca acaaccatcc cagtgtggg tggacagcct 240
 cacgtaatcc ttacttttca aactatacca ttgcgcaatt taagcacata cttggagtga 300

aaccagcacc acagaatgca ctaagcaatg ttcctgtcaa aacttattca agatcactgg 360
aacttccaaa agagtttgac gctagatctg catgggtccc ttgcagcaca att 413

<210> 14460
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-A10

<400> 14460

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ttggcaaggc taccagggag ataccaagag tttccttggt tgcaagaaga aaatggctac 180
ttctccggag atgctttggt gttattgtcc agctccattc aaacagtffc ttgagattgt 240
cacaaatatg aaatttgacg aagagccaaa ttatgccaa cttatctctc tttttgatgg 300
gttgattgaa gcacctgctt cgagacaaat cagaattgat ggggctctca aggttggaca 360
gaaacgtgga agattgggtg cagatctaga agaagatgaa caacct 406

<210> 14461
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-A11

<400> 14461

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gcacacgcaa agctaaacgt ggcgatcaac ggcttcagcc gcatcggccg gaacttcctc 180
cgatgctggc acggccgcta ggactcaccg atcgacatcg tcgtcgtgaa cgacatccga 240
tgcgatcatga actcgtecca ccttctcaag tactactcga tgctcgtcac cttcaatgcc 300
gacgtcaaga tcgttgacga cactaccatc atcgtcgacg gcaatcccat cacggtcgtc 360
ttcatcatgg accccctcaa gcttccatgg tgtgatct 398

<210> 14462
 <211> 83
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-A7

 <400> 14462

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<210> 14463
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-A9

 <400> 14463

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 tcatacataa tccatttctca caactaatct ccataattaa ccctaacttt tcacatgat 180
 ctatacctat taatactacc tattcatatc tcactttaca ctcacataat catacatact 240
 cctatctatc atattcatct acataatata tctaactatt cttacctcaa agacacttta 300
 tatcataact cctaattata taccatacct aatcaactcc cattaacaat acattttaaac 360
 taaaatt 367

<210> 14464
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-B1

 <400> 14464

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 caagctgaag tactactacc cctctcctcc gcctcggctc acggtgttct cttctggccc 180
 gccttctgcc tctccgtccg ctgtcttttc atttattttt ttttattctt cttcttttat 240

6267

tttattttta ttttattatt tttatttttt tttcataatt attttatttt ttatttttta 300
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cttatccctc tatatatatt attttttttt atattttatt tttttta 407

<210> 14465
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-B11

<400> 14465

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ggatctgacg taccgcggtt gcagcgtggc gccaggctcc gcctccaacg gtggggaata 120
ctccccgaag tcttccaagc cgtctctctg gctcgctcgc tctcgcgct acgccggcgc 180
ctatcaccgc cccgtcttct ccctcgccgg catgctcttc gctgccacta tttcacctt 240
cttttcccc tacactttat ctccgtccga acccgctcgc tctgtcgggt tcaaccacct 300
tgccgtcagc tgacacccgt ctttccgcga gtccgtcggc gggaagggtc ccctgtgggt 360
gcttcggctc tcgctgctgg tgctcg 386

<210> 14466
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H11

<400> 14466

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tcccattact tattttacat cctcacataa tcttacttt tcaaactata ccattttctca 180
atttaatcac atacttataa ttaaaccaac accacataat acactaatca attttccttt 240
caaaacttat tcaatatcac tttaactttc aa 272

<210> 14467
<211> 410

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-036-Q1-K1-E7

 <400> 14467

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 tcttaatgag gaacgaggtg cttatacggc taattgactt cactctggag ttgtaatcgt 120
 caatactggc atcagatcga tgtaacacac tgggcttggg gcttccagtg agtcattaga 180
 aaggtaaatc tgattctatt tgtgtacttt acctgaaaag aagtcgaagg gttggctaca 240
 gtagtgagag ttatctcacc aagttacaag gtttaacaa tccctaaggc ctggtttggt 300
 gaccagggac cactgagagaa ttctctctca tggatccctc cgctatccta gtcaccaaac 360
 ctatcctaag tatttgtaag gaaaaaactt gcctctgacc ctactgatgc 410

<210> 14468
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-036-Q1-K1-E8

 <400> 14468

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 tcacttctca ctctacttta aatcataaat ctccccatta acatcgatct aatacactcc 180
 tattttaaca tccacacact cattataaaa ctcaatctac atctatccat acactttacc 240
 tcaaaacaat ctaattcctt acctac 266

<210> 14469
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-036-Q1-K1-E9

 <400> 14469

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tcggcgccct cgctggggcc acggacgacc actccctcca caacgccttc agcacctacg 180
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 gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
 aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc ggccgtggag 360
 gctgcggcgg cggcgggtac ggtggt 386

<210> 14470
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-036-Q1-K1-F3

<400> 14470

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 gatcgacgcg gcgacgacga accggggcgg cggcaaggcc gggcaggcgg accggctggg 180
 gcaggacaag ggcgggcacg cgaagctggc gtgccccctc tgccgcaccc cggcgcccga 240
 catcaagtcc atgcagatcc accacgaggc gcgccacccc aagctcccct tcgagccgga 300
 gaagctcctc aacctgcaact cctccgcccc cgctgctgct gccgccgtcg ccgncactgc 360
 cgaggccacc aacttcaagc ccaagcccgg cgtncgcggc agcctcaaga agtaagcttg 420
 ctg 423

<210> 14471
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-F4

<400> 14471

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 gtcacagaat gaagaaagag tcaaagagaa ggaggagaaa gatcttggtg ctcagcagaa 180

catgtatgcg caattgcttc ctcttgcttt gcctgctccg tcaatgcctg gcatgggtgg 240
ccctccacct tcgatgggtg ggatgggcat gcctacaatg ggtggaatgg gtatgccgcc 300
gatgggccct ggtccgatgc cagcattcgg gatgccagca atgggaagct actgagatgt 360
ttttgcagag agcttagacg atgatctgaa tcgtccctgt gtaagcgaaa gtggaaac 418

<210> 14472

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-F6

<400> 14472

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ggctgacatc ggtattgctg ttgctggacgc tactgacgct gcgaggagtg cttccgatat 180
tgtccttact gagccaggtc ttagcgtcat tatcagcgcc gtcctcacca gcagatgcat 240
cttcagagg atgaagaact acaccatcta tgcagtttcc atcacaatcc gtatagtgtc 300
tggatttatg ctcatgtctt tgatctggca atacgatttc tctcccttca tggttcttat 360
cattgccatt ctcaatgacg gtactatcat gaccatctct aaggacagag t 411

<210> 14473

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G1

<400> 14473

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aggtgttgag aagaatgttg gtttgatcc aagtgatcct attgttcaat tggcagttgt 180
gcttggagggt tcagtgacaa tagggacaac gtactggctc ttcacatata gtggctattc 240
tggagacttg tcacctgaat cagcgtttga cttattgaaa aacgatgaca aagccgtact 300
cattgatgtt cggcctgagg atttgagga aaaagatggt gttcctgatc tacgcctcgg 360

ggctaggtct aaatatgcaa gtgtagcttc gcctgagatc aaagatccag taaagagt 418

<210> 14474

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G10

<400> 14474

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tcacaaactt cgcgggcgag gccgtgaacg tgccgtcgtc gtccgccttc ggcgaggccc 120

gcgtgacgat gcgcaagacg gcggcggaagg ccaagccagc ggcgggcgctc gggagcccgt 180

ggtacggccc ctaccgctg ctgtacctgg gccactgtc cgcgcgagcca ccgagctacc 240

tgacggggcga gttcccgggc gactacggct gggacaccgc ggggctgtcg gcggaccctg 300

agacgttcgc caagaaccgt gagctggagg tgatccactc ccgctggggc atgctggtct 360

cgctcggtg cgtttttccc g 381

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G6

<400> 14475

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cgacggctgc cgcgctggca ttggggacgg cagaccggtt agcggtcagg cagcggctct 120

acaccgagct gcagctgttc aacaggaggt ggaagaaggc cgtggcggag gacgggtgct 180

ggaccgaccc ttaccgaac cggcgacga ccaccggtg accgttggaac ggagcgaggc 240

agcgcaggga agtacagtag ttggtagctg tcagattgac cttgcctaga agatggtagt 300

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<210> 14476

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G7

<400> 14476

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caactgctcc gccgcctgt cctccgccga gtccagcagc ggcaccagtc cggacgcagc 120

tcctctcctc cgtcgcgaag ctgcgcgtca cggccgcgct cgtctgcggc tctggcggtc 180

ccgctgccgt cgtcgtcgtc gttccggccg ccgctcaggc cgtcccgttc gtccgtcctc 240

ctcctcctcc cctgcaagga aggcccttag cgtcctccac tccttacgcg cagtcccaga 300

agctgcagct tggcctcgac aagctcggaa agatcaggcc atgcccgctc accaaccg 360

ggtgcgtgtc cagcaaccg ct 382

<210> 14477

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G8

<400> 14477

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caggagctct ccaagcagct cttctacacc cgctcgcaa gcctaccagg tcggtatgag 300

tcattctgga aggagcttga tgggtgtcaag caggtatgga agaacaagaa ggacctcaag 360

gttgaggacc ttgggattgc gactttattt ggagttgagc tttatgcatg gttctgcgt 419

<210> 14478

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E6

<400> 14478

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 ggacgtgggg aagaacgaac ctgaggggtga aagcgggtggc ggcagagtcc cgcagctcgg 240
 aggggggaat cgctgaagat tattacgtg ttcttggcgt tatgccagat gcaacgccga 300
 agcagatcaa gaaagcatac tacaactgca tgaaatcgtg ccatcctgat ctcagtggga 360
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<210> 14479

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H10

<400> 14479

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 acttattata catccttaca taattcctta cttttcaaac tataaccatta cacaatttaa 180
 acacatactt ccatttaaac cattactcca aaattcacta aacaattttc actcaaaaact 240
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<210> 14480

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D12

<400> 14480

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 ctttagtacc ttttacatcg agaaggcgca catttgacag tccaagagt cctggaaggc 180
 aattctcgga tagccccaga agacaaacta ttgctgctgc agtatctttg tttggagctg 240
 atgatagatc caatcctaga cttgatgaac tcaataagac catgcagtca ctttgcattca 300

tggctcataa tgtatggata acatgggtgt ccaccgaatt atctcacatt ctttcatatg 360
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<210> 14481
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D3

<400> 14481

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 ggcttgattc aggcataccc atcacgacac tgacgccgtt ctccatgctg taatccatct 120
 cctccagctt gtgcttgctg caccagacca ccatgcacgt gctctcgccg tatacgagcc 180
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 ctactccttt aaacgacatg ttgcg 265

<210> 14482
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D4

<400> 14482

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 tgccataata tcgtggggta ttctttggcc atatattctc acaaaagctg gggactggta 120
 tccagctgac cttggaagca atgacttcaa aggactctat ggatacaagg tttttatatc 180
 tgtatctgtg atacttgggg atggtcttta taacctcatc aagatcattt atgctactat 240
 caaggaaata atgaatgcac gggctaagca aggaagactg ccactagccc aagttcagga 300
 tggcgatgaa ggttcaaatt tatcagctga ggaaaagcat ctgaatgaga cattcataaa 360
 ggacagtatc cctccctggt tggcaggatc tggttac 397

<210> 14483
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D5

<400> 14483

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tatcagaata tgacctggga ggagaagggg acctgttcaa agctccagaa gccatcatcg 120
aggaaccgct gctcctgaac tgtctgtctg attctgttca tttgttggtg tgtaggctgg 180
gcttgtgcc a gcttgaatc ctcttgtgaa ggagtttctc aatgctgctg atgacaagcg 240
gaaggaagtc ctctctaaaa tagaagagga tgttgctaag ctcagcgggt ctgcagccaa 300
ctaagaagct acaagtgaat gccgaggaga gcagcgatga cttggctaac ccaccgaaag 360
tagaggagaa gcttggt 377

<210> 14484

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D6

<400> 14484

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acaaacttcc gaacacagat gaaagtatca tacagcaagc agtacgctat ctttcccaga 120
caaaaagcga cagcacgtga cgaccagctc gtgggcaaaa tgggcgtccg agacagcagg 180
acgcagatcc cactgcacaa gtgaaagaag gcctgaccaa ggcagcgtcg ctctcccttc 240
agttcagcgc caggtaagta agctgcccgc cctcatttgt tccgaactgt ctgttccggt 300
ggtcttgag gagccatgcc agcagcatca gagcctctca tgatcctaag tttccggcaa 360
aatgtggtga acaagtccca aggcagatca ccaacgagca tccagtcagc atctttatc 419

<210> 14485

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D8

<400> 14485

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ttagctaattg cggctcatat tatgctctgt tcaacatgtc atgatgccat accattaaca 120
tatcaccttc cctacaaaca acacctccaa gccaaactgg cattcgagta gtcattgtct 179

<210> 14486
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D9

<400> 14486

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ggaaagtgtc cttatgttgt aattggaagg gttattttca gcattttggg gatattcatg 120
gctgcgggtg tcacatatac tgatcatcact gatggactac cttttaggaa ggaattgttg 180
acaccgtgga tggcgggaac cttaattgat ttctacataa atgtctttgc gatatcggtc 240
tgggttgctc acaaggaatc atcatggata tcaactacca tttggattgt cttgctgata 300
tgctttggaa gcatcacaac atgagggtac attgtcatcc aacttttcaa agtatcatat 360
caagatccaa tctaccagt gctattgaac tcccacagca ggtaccacaa t 411

<210> 14487
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E11

<400> 14487

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cgtcttcccc gagctgtctt cccgcaacgg cgtcaagttc ggcgaggccg tctgggttcaa 120
ggccgggtcc cagatcttca gcgaggcggt gctggactac cttggcaacc ccagcctgat 180
ccacgcgcag agcatcctcg ccattctgggc ctgccaggtc gtgctcatgg gcgccgtcga 240
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cagcttcgac cccctcggcc tggccgacga ccccgaggcc ttcgccgagc tcaaggtgaa 360
ggagctcaag aacggccgct tcgccatgtt ttccatgttc g 401

<210> 14488

<211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-036-Q1-K1-E12

 <400> 14488

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 gccggaggca aaggcaagat gttcggggcg gcgccgaaga agagcgacaa caccaagtac 180
 tacgagatcc tcggggtgcc caagtcggcg tcccaggacg atctcaagaa ggcctaccgc 240
 aaggctgcta tcaagaacca ccccgacatg ggcggtgacc ccgagaagtt caaggagctc 300
 gcacaagcct atgaggtttt gagtgatcca gagaaacgtg agatttatga tcagtatggt 360
 gaagatgccc ttaaggaagg aatgggcggg ggaggatccc atgttgatcc atttgacat 419

<210> 14489
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-036-Q1-K1-E2

 <400> 14489

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 ggcggcgggg gtgaggcggt accacgagcg ggtggtggac cactacaaca acccgcgga 180
 cgtaggttcc ttcgacaagg acgaccccaa cgtcggcact gggttggtcg gcgcgccggc 240
 ctgcggcgac gtcatgaagc tgcagatccg cgtcgacgag aactccggca agatcgtcga 300
 cgctgcttc aagacttttg gctgcggctc cgccatagcg tcctcgcccg tggctactga 360
 atgggtgaag ggaaaaccaa tggatgaagt tttgacaatc aagaacacgg agatcgcgaa 420
 gcact 425

<210> 14490
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E3

<400> 14490

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gagggaggcc atcttttctt gctcggttct gtcgtgcaga cgggaaagat tgagctgatc 120
tgctgctagc tggggatcct gcagaggcta ccgcgttctt cttgtctggg gtgcacagtg 180
catgggcagt ggggtgaactg gtagagagca agatggggaa ttgcatcgac accacggcgc 240
gggtggatca cagcatgaac aatgctgcct acccatcaaa agtgaccagc aagacaagtt 300
tgtcgtcaat cctttccaca attaagagca actcaagtcg ttcaacactg actcttccat 360
caatgagaga tcgaaatgag cttcctactc ctcggacaga aggtgaaaat ctggcatctt 420
ctaa 424

<210> 14491

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E4

<400> 14491

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gatatttcgg aagagggagt gcgtgccttc ctctcagctg attcgccgag gacacgagat 120
cctctagagg gttgtgctgt ttggcgtgag gctttggggg cgatttgctt tgctcgcagt 180
ggggatcatg tcgctgtgga tggtggggag ctcgttgctg cccgagtcgg tgaggcagcg 240
gggctattgt ccggcggcaa ggaggaaatg aaggcgtgg ctgggatggg ggagtgccgc 300
atttgccagg aggaggacct cgaaagaac ctcgagagcc cctgtgcttg cagcggcagc 360
ctcaagtatg ctcacaggga atgtgtgcaa cgttggtgca atgagaaagg agatataatc 420
tgtgaaatct 430

<210> 14492

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E5

<400> 14492

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aagaagcacc agtgccctgat cgatggcggc ccaggctctc ctctccggcc ggcagctgct 120
gggccgcccc gtgcagtcgg ccgtctctag gtcgtcggcg aggaaggcgc ccttcgctgt 180
cagggccagc tccagccctc cagccaagca aggtgccgac aggcagctgt ggttcgctgc 240
caagcagtcc ctctcctacc tcgatggcac gctgcccggc gactatggct tcgacccgct 300
gggcctctcg gacccggagg gcaccggggg cttcatcgag cccaagtggc tggcctacgg 360
cgaggtgatc aacggccgct acgccatgct gggcgcggt 399

<210> 14493

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D10

<400> 14493

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tgattgaagg ggcattgcagt ctagttgatg ctcatactgt tgaagttagc cagcctgatg 120
gttcaaagca aaggtataca gcgaagcaca ttttgatcgc gactggtagc cgtgctcaac 180
gtgtcaacat acctggaaag gatctggcta ttacttctga tgaggccttg agcttggagg 240
agcttccaaa gcgcgctgta atcctgggtg gcggatatat tgctgatgaa tttgcttcta 300
tctggagggg gatgggtgct gaagtagatc tgttttatcg aagagatctt cctctaagag 360
gttttgatga tgagatgaga gctattgttg caagc 395

<210> 14494

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-036-Q1-K1-B4

<400> 14494

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ggcaagcttt tattgcacat aaattgcctc tacctgttat ggtcattagt ggaaaactgg 120
ctgttgtagt tgcttcgtag actgaatatt taaaaagaag ctaagatatt agtcttcatt 180
ttttttccaa cgaagttacc catgtaggtt ggactgttgt tgctgctgga aatttcacgg 240
ttagatgatg actgagtgac tgacgccatt tcagttctca ttgtaatatg tattatggcc 300
caattaagca tcaagttgaa acatgattga atcttatact cacattttgt gttgtacctc 360
tattctgggc agtgggatgc tntctaattg acaactgaca ttcagc 406

<210> 14495
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B6

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gagcatcaag gacgaggaag gttaccggc gtctcgctg gtgaacaagg cgaccgggga 120
ggccatcaag cactcgctgg ggcagtcca cccggtgcgc ctggtgccct acaaccgga 180
cttcctggac gagtcggtgc tgtggacgga gagccgcgac gtcggcaacg gcttcgctg 240
cgtccgcatg gtcaacaaca tctacctcaa ctccgatgcc ctccacggcg acaagtggca 300
cggcggcgtc cgtgacggca ccaacgtcgt gctctggaag tggcgcgagg gcgacaacca 360
gcgctggaag atccagccct actac 385

<210> 14496
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B7

<400> 14496
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aaactaaagc aagtgttgga tttaaagctg gtgttaagga ttataaattg acttactaca 120
ccccggagta cgaaaccaag gatactgata tcttggcagc attccgagta actcctcagc 180
tcgggggtcc gcctgaagaa gcaggagctg cagtagctgc ggaatcttct actggtacat 240

ggacaactgt ttggactgat ggacttacca gtcttgatcg ttacaaagga cgatgctatc 300
 acatcgagcc cgttcctggg gaccagatc aatatatctg ttatgtagct tatccattag 360
 acctatttga agaaggttct gttactaaca tgtttacttt 400

<210> 14497
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-B8
 <400> 14497

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 caggtgggttc ccggtggaga tgacaacgat ctggagctga acgaggagtc ccacttcctg 180
 agcttcgtgc agcggttcgg caagtcctac aaggacgccg acgagcacgc gtaccggctg 240
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 gagcacggcg tcaactaagtt ctccgacctc acgccggcag agttccgccg gacctacctc 360
 ggcctccgca agtcccggcg cgctctctc agagaactcg gggagtcggc gcacg 415

<210> 14498
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-C1
 <400> 14498

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 ggcttaccac gccagggcc atgtcatccc tatgatggag ctctcccact gcctcatcga 120
 gcacggcgtc aaggtcacct tcgtcaacac cgaggtaaac caccgtctca ttcttggtgc 180
 ctfggcgacc ggagacaaag aactcggcgg ggtcgacatg gtgtccatac cggacggcct 240
 gggctccggc gaagaccgga aggacctcgg ccgtctcacc gactcgttct ccaaggatcat 300
 gcccggcgag ctggagaagc tcattacaag catcaacgcc gatggacgag agcgcgagag 360
 gccagctggt tgatcgccga cgtgaacatg gcg 393

<210> 14499
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C11

<400> 14499

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 ccgaggggct cgtgcgcagg aagctgatga ggctcctgtc gctcgtcccc ttcggctgcc 180
 gtgctggacc catcgacgac gcgccgtcgt ccgtggacca cgccgccgcc gcgaggagggc 240
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 agcagtggcg cccctcgtc ggcgaca 327

<210> 14500
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C12

<400> 14500

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 tgctgctgga gactgggtgc ggctgagggg ggaggacaag aagcgctctc aggttggcat 180
 tcttcacagc atcgaccgtg acggtgcagt ggcagttggt ctgataggag tggatacccc 240
 ttggaagggc aattattcag acctccagat ggctgaagcc tactgtgtcg gacagtttgt 300
 gcgcctgaag gccagcattt caagcccaag gttcgaatgg cagcgaaagc ggggtggatt 360
 agcttctact ggccgaattt cacagataca tccgaacggg ttgctcgtcg tgaaat 416

<210> 14501
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-036-Q1-K1-C2

<400> 14501

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gcctccgtcg cagctttaac tcttcagaga gctaacagtg gggccaggca cagcaaagac 180

tatgtccaag caaggaaaag gaaggataag gctaacaatt ctgaacatgg ggagaaagaa 240

gaagagaagg aagaggttaa aacaatcagc ggcataatca actcagcccg ctcgctagac 300

gatgacgacg atgatatgct ttccgagatc gaaagcctcc tatcaggaga cattgacatc 360

cctataccaa gcgatcgctt cgacgttaat ggacggtcac ggtacaacaa cgcttacatg 420

gnctacga 428

<210> 14502

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C3

<400> 14502

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gacaagccct acgggattgg ggggtggcctg accgtcgacg tcgacgcaa cgggagaaaag 240

ggcaagggca agggcgtgta ccagttcgtc gacaagtacg gcgcgaacgt cgacggatac 300

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<210> 14503

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C6

<400> 14503

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ggccaccgct cgggtcctct ccacctccct cctccttcac tccctcccct tgcgttttagc 120
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gcac 425

<210> 14504
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-036-Q1-K1-C7
<400> 14504

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<210> 14505
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-036-Q1-K1-C9
<400> 14505

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gaagtctgac gatatccctc cagcaaagag gctgacaaga aaattgggtca gctaaatgag 240
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 ccagtgtgcc cgaagaggat agtcagcctg agcgtttgcc catcgatggt tgtgcggatt 360
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<210> 14506
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-036-Q1-K1-D1

<400> 14506

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 ctgtggcaca cctgggatgc aattatcatg ctctgggcat gacaccatcc ttgatcatcc 180
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 cccgccagag gactcatcgt cacactgcc aattcagaag cttgttaaaa gaaatcaatc 300
 aactgatgtg tacacacctg tagcacatcc tgtctcagta gttgtaggat gctcaagaga 360
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<210> 14507
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B3

<400> 14507

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 ttggtctttt ccccccttc cctttcatat tgccctttgt tagaaattga atgtaaaagg 180
 attagaatgt tgttttattc gttgcaagag taagggttaa taaggaggca ggatggcctg 240
 ccggtcccgat aatctgaagc tgctaatttg taagcctata gtttggattt gcacattcta 300

tttgttatac tttatatgta tccatgaata gaaaattacg cctcgaaatt ccaaatttgt 360
aataaatccg agagaccac 379

<210> 14508
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-H9

<400> 14508

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actgagatcc caaaagggtga agcaatcccc ctggagtaca atcttgctgg cttgaacgcc 180
atttcgttcg agaagggctg ctacatcgga caggagctta tcgcgcggac gcaccatcgc 240
gggtgcatcc ggaagcgcct aatgccaatg aagttcgtcg acgggaatgg gcaagaactc 300
gagcatgccg tcgctccagg ctccggaggtc gtggacgagg cttcaggcaa gaaggtccga 360
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<210> 14509
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A1

<400> 14509

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cgcggcgacg tacttgcctc gctctgcctt ctccacgcgc aaggaggggt cagcgaagga 180
ctcggcgtcg ttcttgggtg ttcggctaac ggcgatgga ctcaaactgg acaccaccga 240
tctgggccta cgcaccttga gggtagcca tgctgcagac atccgcgcgc agacggcagc 300
tgtgtactgc ccgatagtga cccccgcgtc gacgtctggc aaga 344

<210> 14510
<211> 401
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A11

<400> 14510

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ctgttcgtgg agcagggcac gacgatggac cggcacatgg gcccgcgctt cgagatcccc 120

gcggcgagcc tgggcgcgctt cgtgacgctg accatgctgg tggccgtggg ggtgtacgac 180

cgggtgttcg tgagggccgt ccggcggtac accaaggacc cgcgcgggat cacgatcctg 240

aggcggatgg gcacgggcat gctgctgcag gtggcgacca tggcgggtggc gtcggcgatc 300

gagagccgga tgctggccta cgcgcggagc cacggcctgg acgccactgt gggccagctg 360

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<210> 14511

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-036-Q1-K1-A4

<400> 14511

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acgtgcatgg cgaggtttgc gctcgtggcg tgegccgctg ccacggcggc gctgctgctc 120

ggcgtggcgg cagcggacgt ggcgtcgatc atcacgcagg acgtgtacaa ccagatgctg 180

cccaaccgcg acaacacgca gtgccccgcc aacggcttct acacctacga cgccttcac 240

caggccgtca actttttccc ggggttcggc accggctcca gcaccgacga actcaacaag 300

cgcgagctcg ccgccttctt cggccagacc tcccacgaga ctaccggtgg cacgacaggt 360

gccgtcgacc agttccagtg gggttactgc ttncaggagg agatcaaca 409

<210> 14512

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A5

<400> 14512

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 gtcggcgagg gccacagac ggcgcggcga catggagggg agcatgagca cgcacgacag 180
 ctcgatgata gagcgggttc agcgggtgaa ggcgcgctac aacaagtcct acgccacggt 240
 cgccgaggag cggcgggcgt tccgggtgta cgcgcgcaac atggcgctaca tcgaggccac 300
 caacgccgag gccgaggcgg cgggggtcac gtacgagctc ggcgagacgg cctacaccga 360

<210> 14513
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 14513

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 cggcaccgcc gccgtggcaa tggtgccag cgcctgctt gccggcggtg ccatggccca 180
 ggaggtgctg ctggggcgag ggcacggcgg gctcgtcttc gagcccagcc agttcacctg 240
 caaggccggc gacaccatca cattcaagaa caacgccggc tttccgcaca acgtcgtctt 300
 cgacgaagac gaggtgccga gcgcgctcga cgccaccaag atctcgcang atgagtacct 360
 caacgcgcca ggcgagacct actccgtcac cctcaccgtg ccgggaacct acggcttcta 420
 ctgcgagcc 429

<210> 14514
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-A7
 <400> 14514

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atcaagatgt ttgttctaga tgaagctgat gaaatgcttt ctcgtgggtt caaggatcag 180
 atttacgaca tcttccagct tctcccagcc aagattcagg ttggagtctt ctctgctacc 240
 atgccccctg aggcccttga gattacccgc aagttcatga acaagccagt gagaatcctc 300
 gtgaagagag atgagctgac tcttgagggt atcaagcagt tctatgtgaa tgtggataag 360
 gaagactgga agctggacac actgtgtgac ctgtacgaga cccttgcca 409

<210> 14515
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A8

<400> 14515

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 tgattttaac gaccagtcgc accccgaaag ctagcttggg ccaagttttg taccattaa 180
 ttctaccgat gcatctctca gtttagactc ccataatcat aaaaactgct agctttcatc 240
 tgcattctgt tagtacatct aactatttgt accgcaaggt gacgtttttg cagaactcct 300
 aattatatac catgcataat aaagtgggtg caacaat 337

<210> 14516
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A9

<400> 14516

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 gagcacgctg ttcgtgaagc agggcacgac gatggaccgg cacatgggcc cgcgcttcga 120
 gatccccggc gcgagcctgg gcgcgttcgt gacgctgacc atgctggtgg ccgtgggtgg 180
 gtacgaccgg gtgttcgtga gggccgtccg gcggtacacc aaggaccgc gcgggatcac 240
 gatcctgagg cggatgggca cgggcatgct gctgcagggt gcgaccatgg cgggtggcgtc 300
 ggcgatcgag agccggaggc tggcctacgc gcggagccac ggtctggacg ccacgggggg 360

ccagctga

368

<210> 14517
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B10

<400> 14517

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ctaaagcaag tggttgattt aaagctggtg ttaaggatta taaattgact tactacaccc 120
cggagtagca aaccaaggat actgatctt tggcagcatt ccgagtaact cctcagctcg 180
gggttccgcc tgaagaagca ggagctgcag tagctgcgga atcttctact ggtacatgga 240
caactgtttg gactgatgga cttaccagtc ttgatcgta caaaggacga tgctatcaca 300
tcgagcccgt tcctggggac ccagatcaat atatctgta tgtagcttat ccattagacc 360
tatttgaaga gggttctggt actaacatgt ttacttccat tgtgggtaac gtat 414

<210> 14518
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B11

<400> 14518

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ctggccgcct acgacgtcgt ctctctggcg gcgctcgtgg gcatggccgc cgaggagaag 180
gcgcgcgctg tcgagcacct agggaggcac atggcgcccg gcgccgcgct ggtggtgcgg 240
agcgcgcaag gcgcgcgcg cttctgtac cccgtggttg acccgagga gatccgccgc 300
ggcggttcc acgtgctcgc cgtgcaccac ccgtgagggg aggtgatcaa ctccgtcatc 360
atcgcgcgca tgccactgcc ggtcgtcgac gagcacgccc g 401

<210> 14519
<211> 402
<212> DNA

6291

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-036-Q1-K1-B2

<400> 14519

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gccgccctgc gcgcgctggc gcgcgacgcg gcggcccggg ccgggagggg gacggcgggg 180

tggcgcgggc gggagcggga ggatcacgcg cacggccacg gcaagacggc caaggtcatg 240

cacctgctgc tctggggacc caaatgaggt gaagtgaagc gctgctgctg cagcacagca 300

cctgcctctg cctcgtggcc cgcgcgcggc gtctctgctt ncttctcctt ccgctgcccc 360

cacgggttgt acttgtagat gtaccactgg tagactagta ct 402

<210> 14520

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F6

<400> 14520

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ccaagattct gggcaccag ctcaacttcg cgggtctctc ccgctacgcc accgcagcgc 120

ccaccgcggg ggctcagaag attgtctccc ttttcagcaa gaagcctgcc cagaagccca 180

agcccgcctgc ggtatcgtcg tcttctccag acatcagcga cgagctcgcc aagtggatg 240

gtcctgacag gaggatctac ctgccggatg ggctgttggg ccggtcggag gtgccggagt 300

acctcaccgg agaggctcct ggagactatg gctacgacct ttttggcctg ggcaagaagc 360

cagaggactt cgccaagtac caggcctacg agctgatcca tgc 403

<210> 14521

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F7

<400> 14521

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 caagacctgt ggcactcccg acctcctgct caccattcca agaatccttc agcttgctga 180
 agacctgtct atgccacttg ctgatgtgaa gtacttctgc gggacgctca tgttttatgt 240
 cacacacca tttccctaca agtacttctg tgacgaagtc gctgtactta accgtacta 300
 tagctgcctg aaataccgtg atcatgctga tatcaactga gattcagcca tacttgagcc 360
 gatatggtac gtctttctac 379

<210> 14522
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-035-Q1-K1-F9
 <400> 14522

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 ctaccaacag ttctctcctg ttacttttta aaccaataac tttttcaagt ttgtgcagat 180
 gcacacatcc ttgagccaaa atagaaaaaa aatcatagaa gagttctttg gctgtcacgt 240
 gattcaagag tattaatgat atacaaaagt ttgctttatg gcaagtcagg taaccacaaa 300
 ttttgggcaa tgacagggat gtgcagtggt ggtctcttaa aagaattttg tgttccagcg 360
 tagctatttc cactgcaaac tatcaaatca ttacaaactg ctgggaacat gctccatctt 420
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<210> 14523
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-G10
 <400> 14523

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tcgtgtccat cgctgctcta cccattctta cttgaatctt ttctgaagag gaaatctgac 120
 ttcgggagcg gctcctccgc gttgcctgga tgcgccggga tcagtatttt gcttccagtc 180
 agagggtccaa aatatcaaag ggatgcagaa agatgtggtt gcatgatgga gtaccttgcc 240
 tggaaattgg caggatacac atacataatt gtactttact tgatctcgat gacattggag 300
 tgcaaataata tgcacaacga ttgcctcatg cacacacaca taatggggcc gcgagttgta 360
 gctcaaccat catctctggt ttctntctag gtggagatgg ttaaaattgc tggtcact 418

<210> 14524

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G11

<400> 14524

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 cgttaaactt tatgcaagtg ctgctaccgc aaccattttc ccacaatgct cacaagctcc 120
 tatagcttcc tttcttcccc catacctctc accagctgtg tcttctactat gtgaaaaccc 180
 aattcttcaa ccctacaaga tccaacatgc aatcgagca tgcattctac ctttatcacc 240
 cttgttctct caacaaccgt cagccctatt acagcactta cctttcgtgc attttttggc 300
 aaaaaacatc aatgcacaac aactacaaca actttttcta tgaaaccttg ctacctactc 360
 tcatcaacag cactttcttc cattcaacca acttgcttca tttaactcta ctgcttattt 420
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<210> 14525

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G2

<400> 14525

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 gctcgattgt ggctcctctc ctcccgcgct gctcctctc cgccgcgcgc cccacgatga 120
 gggggcagcc gtccttgctg ccaagcgtgc ggaagcaatg gcccggaag ccaactgctgt 180

atggaatcgg caccctgttg gtcatgccac tgaggacact gtatggagtg ggtcgtgttt 240
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 ttgtaccatg ccttcgagat aactatgcgt atatcctgca tgatgttgat actggaacag 360
 ttggagtagt ggatccttct gaggetatgc ctattataaa tgcattggaa aagag 415

<210> 14526

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G5

<400> 14526

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 catgcgcaag accgtgggca agcccaaggt ggcggtctcc ggcagcccct ggtacggccc 180
 cgaccgcgtc aagtacctcg gccccttctc cggcgagccc ccgagctacc tcaccggcga 240
 gttccccggc gactacggct gggacaccgc cgggctgtcc gccgaccccg agaccttcgc 300
 caagaaccgc gagctggagg tgatecactc ccgctgggcc atgctcggcg cgctcggctg 360
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<210> 14527

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G6

<400> 14527

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 gcccgggtgc gtcgtcggag cattattacg ccaccacgtc cgacgaccag gaaaccgacg 120
 acgtcggcga tgggtgcaaaa gggacgactg cgaaccacgg ctcggcagtc gtgccgccgc 180
 acgttcttgt cgcgcggcgg aggaggtggt tgcgcggccg gacggcggcc tactccatgt 240
 gcgctggcaa ggggaggacg ctcaaagggc gagacctccg cgacgtccgg aacctcgtcc 300
 tcaagatgac aggettcatc gaggagtga tgaatgcgtg ccgtcgcacg gcatggatcc 360

agaggattct tttcagcaag ccaatggaag aagcaccgt agcagtc

407

<210> 14528
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G7

<400> 14528

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caatctcgta caccatgtgt tacacacata ccatatctaa tttcactgct ctatactcac 120
caactataaa cacaacaatc acccacacat tattcggtccc ataacatatt aaacacccca 180
tccttactat ctttatcacc ctctatctat cca 213

<210> 14529
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G8

<400> 14529

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attgtcagaa ccaagctggg tggacctgtg gtaaagcttc tgcttcttat tgctgcgact 360
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tat 423

<210> 14530
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-035-Q1-K1-H1

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 gcgagctcgg gaatcagggg tttcacacat agcttcgctc atttgaattt gatgtactaa 240
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 ttggctacag cattgaggac gttcgacctg ccggaggcgt gaagaagttc cagtctgctg 360
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<210> 14531
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-035-Q1-K1-H3

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 ctgactccac ccacccaccc gcccgctgcc tccgcccgat ctgctcggac tcggatccgc 180
 ccgaccacga ccaccccggg tcgtcgccgc gcagcagcag cagatcagag aagatggccg 240
 gactcgacac cttcctcttc acctcggagt ccgtgaacga gggacaccct gacaagctct 300
 gcgaccaggt ctcagatgct gttctggacg cttgccttgc tgaggaccct gacagcaagg 360
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<210> 14532
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-035-Q1-K1-H4

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accgccggag cgaaggctcc acctccaaact ccaaccagcc gtccctcgcc ggcgaggggg 180
aagcggacga cggctcatcc gatctcgagg tcatcgagga cccggatctc ctcggcctcc 240
gcgccatccg cgtgcccgaag cgcaagatgc cgctgcccgt cgagagccac aggaagaact 300
cagtagaaat ggagttcttc acagagtacg gagaggcaag ccagtaccag atccaagaag 360
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<210> 14533
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F5

<400> 14533

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gccgcgccgg tcgtagaccc aacgcccgc gccagccca gcgcgcctc cggccgtgag 180
gcggagagga tcgggcgggc ctcggggcga gcgccacgcg tagacggcgg ttgaggagcc 240
tgagaaaaca acggtcctcc ttcaagatcc tgatccctac gcgcaggcgt aggagattgt 300
attccgtctg attaatcggc ggagagcaag cgggtgttgc ggctgcgcga gcatggcggg 360
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<210> 14534
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-035-Q1-K1-D9

<400> 14534

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cttgctcgtg gtctcccaa acaggtttgg tttctagatc cattacatgg agtgtgtagt 180
gtttttctc ttttttgcaa tctcatgat gtgccaccag gtctggtcta atcggtcccc 240

taaaattgtg gcctataatc agcttcttgg cctatgatcc ttttgtatgt aggcaaagcc 300
aacgaatgaa agggactcac tcgcagcaac aaccaanaag ctgatcacgc attctccttt 360
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attgctctt 429

<210> 14535
<211> 284
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-035-Q1-K1-E12
<400> 14535

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taatacatat aacaccaacc ctcatttcag cttcctctcc tagacctctg acaaccattc 180
cctctacaat ctctcgttac ccacgcagc gtatatagaa atcacgatca tactagcaac 240
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<210> 14536
<211> 413
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-035-Q1-K1-E2
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cgaggatgtc ttgcaactgc ggatcaagct gcggctgcgg ctcaagctgc aagtgcggca 120
agaagtaccc tgacctggag gagacgagca ccgccgcgca ggccaccgtc gtcctcggcg 180
tggtcccgga gaagaaggcc gcgcccaggt tcgtcgaggc cgcggcgag tccggcgagg 240
ccgcccacgg ctgcagctgc ggtggcaact gcaagtgcga cccctgcaac tgctgatcac 300
atcgatcgac gaccatggat atgattatta tctatctagc ttgtggtggt ggttgaacaa 360
taataagcga agccgagctg gctgccatac ataggtatng ngtggtgtgt gtg 413

<210> 14537
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-E4

 <400> 14537

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 tcccatggcg ccgttggccg gatctccctg gccgtgtgcc cctgcgctcg gtcgcctctc 180
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 cctgggctct gctcgccgga gcttctgct cggccacgcc catgcccac gcctagccga 300
 gcggcctcac tgcacgttcc tctttctcc aagttgagct ccatctccct gcgcgcggta 360
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<210> 14538
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-E5

 <400> 14538

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 cagcccgggg tctgctcgt ctggtggtgg tgaaggggag aaattcgtga gatctgttcc 180
 ggatcaggcg tgcgagctcg ggaatcatgg gtttcacaca tagcttcgtc gatttgaatt 240
 tgatgtacta atggagtcta aggggtggcaa aaagtctagc agtagtcgtt ctatgatgta 300
 tgaagctccc cttggctaca gcattgagga cgttcgacct gccggaagcg tgaagaagtt 360
 ccagtctgct gcttacttca actgcgctaa gaagccat 398

<210> 14539
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-E6

<400> 14539

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ctcgccccag gacaacgaaa acggaaagaa gagaaccaa ggaaacagag caagagcatc 120

gctctcgaag caaaacgcgc accacgccgt cgccggccgg ccacttcgca cgtacgtagg 180

acgcgcacgc accggtgcat atatggggct cctgaaccag ctgtgggacg acacgggtggc 240

cgggcccgcgc cgggactccg gcctcggcaa gctccgcaag tacgcctcct tctccccctc 300

gtcgtcgtcg tcggcggcgg tggcggcggc ggccggcggc ggctccgcgc cgacttcggg 360

cgccgtgacg cggagcttga ccatgctgcg gcggccggcg gcgctgtccg tcgtcacgtc 420

gcccc 425

<210> 14540

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-E7

<400> 14540

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ttcaagatgc agatctttgt gaaaaccctg actggcaaga ctatcaccct cgagggtggag 120

tcgtctgaca ccattgacaa cgttaaggcc aagatccatg acaaggaggg catcccccca 180

gaccagcatc ggctcatcta tgctggcaaa cagcttgagg acgggcgcac gcttgctgac 240

tacaacatcc acaaggagag caccctccac cttgtgctcc gtctcaaggg aggcattgcag 300

atctttgtga aaaccctgac cggcaagact atcaccctcg aggtggagtc ctctgacacc 360

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<210> 14541

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-E8

<400> 14541

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cccacccctcc gcttctcctc cgccactcat cctctccacc gaccgctccg ccggcgggctc 120
 ccgtccgttc gatgtccctt cgccgcgcgc gccgccggcc ccggtgtccg ggcgccccct 180
 gagctcgtcg actccatcct ctccaaggtg aagggaactg accgaggagt gctgctgcca 240
 aaagatgggc accaggaagt ggctgaggtc gcgctgcagc tggggaagta ttgcatagac 300
 gaccccgta agtccccgtt tatattcgga gaatgggagg ttgtgtactg ctcggtgcca 360
 acctcgccgg gcgggctcta ccggacgccc ctt 393

<210> 14542
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F10

<400> 14542
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 cagcaccatg gccgtctcct ccacagcctt cgccggcaag gcagtgaacg tgccgtcgtc 120
 tctcttcggc gagggccgcg tgacgatgcg caagacggcg gcgaaggcaa agccggcggc 180
 gagctccggc agcccgtggt acggccccga ccgctgctc tacctgggccc cgctgtccgg 240
 cgcgcccccg agctacctga cgggcgagtt cccgggcgac tacggctggg acaccgcggg 300
 gctgtcggcg gacccggaga cgttcgccaa gaaccgggag ctggaggtca tccactcccc 360
 ctgggccatg ctgggcgcgt tgggctgcgt gttcccgag ct 402

<210> 14543
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F11

<400> 14543
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 ggcattgacg tgctgagaca ggccgaggcg gcccgccgt accacgtcgt gcgcgccacg 180
 gcagaccca acaggccgat ctgcttcccc ggcagacccc ttccggcgtg gatcgactgc 240

aggctgaccg gcgacttcga gctctatccc tgtggcactg gatctgaccc ggagagcctg 300
 ccgacgatac gtgcacgcgg agctgggtgca ctgtcagtta ccgatgctca tctcggcggg 360
 catgttcata cccgagttcc tgaccaagat cg 392

<210> 14544
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F3

<400> 14544

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 aaacagaccc aggtccccag gtgtttcggg tgtttatggg ggtcatgcat tccaatttag 180
 gtccttctgt tctagttgca catatttagt tctgatgttt atgatcacta cagaggcaag 240
 tttttccttt taattcacta ttcccaccta tacaacttgg tggttgatta agagttgtat 300
 tctcatgtac atagtctctg attcatgata cttattttat agttgggccc aaaaattaaa 360
 gatctatatt ctctaaagtg tgca 384

<210> 14545
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-D8

<400> 14545

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 cgttcccaaa tcagacttgt tcggcctctt cgacggcgtg cccgtctccc cgagctcatt 120
 cgccatgcct tctctagcct ccgcgagagg aggacgaggg ctctctttgc cggcggtgc 180
 tgaggcggtt gtggtgctaa tattgggtgc agtggcgcca gcggcggtt gttatccgcg 240
 cgtgttcagc ttccggggact cgctggccga caccgggaac taccggttcg tctacggcaa 300
 cgactctggg tctggcgggg ccgcgctccg gccaccctac ggcgagacct tcttccaccg 360

cgccaccggg cgcgcctnca atggggcgct cgtggtcgac ttcacgcgg aca

413

<210> 14546

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-C10

<400> 14546

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tgccacataa ggacgctgag ttcagtaccc acccgatgaa cttgctgaac gaaaggaccc 120

tgaagggggac cttcttttggc aactataagc cagcactga tctgccaaat gtgggtggagc 180

tgtacatgaa aaaggagctg gaggtggaga agttcatcac gcacagcgtc ccgttcgccg 240

agatcaacaa ggcgttcgac ctgatggcca agggggaggg catccgctgc atcatccgca 300

tggagaacta gatttcgctg tctagtttgt gatctggcct gggcttgggg ttaataaaag 360

aggcaatgct agcctgccct ttcgatgagg aagtacatac acgctggcga tggaccgcgc 420

ttgtgtgtcg cgttcagttt ggctttt 447

<210> 14547

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-C11

<400> 14547

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tccaggacgt acgtacgtac gtagatcgat ccatcgatcg ctagctagct gacgaccatg 120

gcgtccctct cctctgccgc catcacgcc ctttcttca cggccgcgcc cgctcgcgca 180

gtggtcagca ggaggtcctt caccgtgcgt gcctctctcc gcaaggccac tgccaccgcc 240

gccgtggccg ttgccgccag cgtcctgctt gccggcggcg gcgccatggc ccaggaagtg 300

ctgctgggcg caggcgacgg cgggctcgtc ttcgagccca gccagttcac cgtcaaggcc 360

ggcgacacca tcaccttcaa gaacaacgcc ggctttccgc acaacgtcgt gttcgacgaa 420

<210> 14548

<211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-C2

 <400> 14548

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 tcgtgaccgt gacgcaggaa gctataagct agccaagaca ggaataataa tggcggcgtc 120
 gacggtggcg agcctctctg tcccggtgac gacgacgacc ttcgcggcgg cgggcggcgg 180
 cgacgtgctg atcgtcgtcc cgaggagggc gggcgccaag cgcgtcgtct ggttccccgc 240
 ggcggcgcg cgcggcgggc ggcggttggt cgccgtgcgg tccagcgggc cggccacgcc 300
 gccggagatc tccgacaagg tgtcggagag catcaagcag gcggaggaga cgtgcgcgga 360
 cgaccagaag ggcgacgcc agtgcgcggc ggcgtggga 399

<210> 14549
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-C3

 <400> 14549

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 agagagagat agaaagtggg tgctagttgt atggtcgtcc ggtgggcggc atgaccatgg 120
 agcacggcga ggattgctgc gtcaagggtg cggtccacgc gcgccccctc atcggcgacg 180
 agaagctgca gggctgtaag gactgcgtcg ccgtcgtgcc gggcaagccg caggttcaga 240
 tcggcagcca ctccctcacc ttcgaccatg tctacggcag cacaagcacg ccgtcggcgg 300
 ccatgttcga cgagtgcgtg gcgccgctgg tcga 334

<210> 14550
 <211> 166
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-C4

 <400> 14550

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 atatagaaag tgggtgctta ttatatgtgc gatctgtgtt ctcaattacc atttatcact 120
 tctaggattg cttcttcaac tttactgtcc acactctctc cctcat 166

<210> 14551
 <211> 140
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-C6

<400> 14551

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 gttaccatca ctcatgaagc tgtaaactag ccaacacacg aataataatg acggcgtaa 120
 cagtggcgag cctctctgtc 140

<210> 14552
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-C8

<400> 14552

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 tatatatact cgctgtatta gcagtagagg cggccgtgca gcgatcggtc gacgatggtt 180
 gttgccgcca tgagagacga gggagaggag ggacgacgac gggcgggtgtt ggcgatacgg 240
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 ggcccggccg ccgcgcggcg cgggatgtcg ctgcacgccg acctgctcgg cgaccccgtc 360
 gcgcgcatcc gccactcgcc gcactacctc atgctggtag ct 402

<210> 14553
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-035-Q1-K1-C9

<400> 14553

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gctgcgggag agacgaccgg ccgcccggca cgccgccatg accaagcaaa aggcagtgat 180

caggcttggc gtaacgaacg accagaaccg gtctaaggcc atgcagctgg cgtcccgaatt 240

tcacggagtg accttggtgt cgatcaccgg cgcaggcaag gaccagctgg aggtggtagg 300

agaagacatc gacatcccct gcctcgtaaa ttccgtgcgc aagaaggctt gccgctccgc 360

cggcatcgtc gtggtggagg aagtcaagga caaggcgaag gtggaagang agaagaagaa 420

g 421

<210> 14554

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D1

<400> 14554

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tcagagagc cacatttcct gtttctaattg ctccagtgaa ggctacagaa aggtttgaag 120

cagcctaccc aatgatcaag gagttggctc ttgccggctc tcctgggtca aaaactgtga 180

aacaagcatc acaacagctt ttacctttgt gtgcaaaagc aatgcaagaa aacaacgcag 240

agctcaccag ggaggctggt gatgttttca tttgggtgctt aactcaaaat gcagagtcgt 300

acaagcagtg ggaaagaatc tatcttgaaa atattgaagc cagtgttgct gtccctgagca 360

aagttgtgat tgattggagg ggtgtgtctt ctaagctc 398

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D11

<400> 14555

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cccgtcgtcg caactcgctt gcagggcggt cggcgctgac gccggcgccg ccaggatcac 180
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gctcgccacc tcggcgctcc tcgtctcggg cgcgagcgcg gagggcacgc ccaagaggct 300
gacctacgac gagatccaga gcaaaacgta catggaggtg aagggcacgg gcacggcgaa 360
ccagtgcccg accatcgacg gcggcggtga gtcgttcccg ttcaaggccg gcaag 415

<210> 14556
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D3

<400> 14556

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acgatgggac aggagcaact caccaagtcc aagaaggcat agaagccac tatctccaag 120
gagacacaga agacagagaa gtcggagcac tacaagttca ttagagaata acccatccag 180
tccaagtcac gcatcagaga aaataaattc atctgtaaaa caaaggctgg aagaagaaaa 240
gaaaaggcgt caaaaggaag ctgaatttaa gttactggaa gaggagcttg ctagaagggt 300
cgaagaagct ataaggaaaa atgtcgagga acgtctgaaa tctgaagagg tgaaacgtga 360
catagaacac cgaattgagg aaggtattag aaagttattt gatg 404

<210> 14557
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D4

<400> 14557

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gacgccgccc gaatcaatgg agattagggc tccgccgacg agcctgaggc tcgcgccgcc 120
gcccgccgcc gccagcttcc gccgaacccc gcttaggacc tccttcttc gcggcagcgt 180
gtcacttaaa gttgtgcaag tacggcagtc aaatgtcaac agatttaagt gcaatagcat 240

acgaagtaac ctcttttgata ggctaacaag ggttgtcagg tcctacgcaa atgcagttct 300
aagttcgttt gaagaccctg agaagattct agaccaggca gttctggaga tgaatgatga 360
cttgacaaaag atgcggcagg ccactgcaca ggtcttggca tctcaaaagc ggcttgagaa 420
taaataataa gctgcagaac aagcggt 447

<210> 14558
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D5

<400> 14558

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agccccccgc caaggccgcg gcgcggtcgg cgccgtccac cagcagcggc agcgtctcgc 180
tgcgcgctccg gacggggcag gccgccaaga aggctgcgct gtccgtgtcc gcgtcgtcca 240
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tgggcgcggc agacgcccgc tgcgacagac gcagccagct gctgctcgtg gtgggtggcg 360
ccgacatc 368

<210> 14559
<211> 272
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-035-Q1-K1-D7

<400> 14559

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cacacaacac acataaatcg gagcactacc agttcattag acaataaacc atccagtcca 180
aatcactcat caaagaaaat aaattcatct ttaaaacaaa tgctggaaga agaaaaaaaa 240
aagcctcaaa aagaaactga atttaagtta ct 272

<210> 14560
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-035-Q1-K1-C1

<400> 14560

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ttaatgaaat tgaaattatt aactaacaga gcaaacacaa ataaagaaac aactttgctg 120
accatgatag atttttatct agttggaaga gtcctcttaa tattcatcta gtcttatata 180
agtttgggta tatagaaata caaacagaaa agagaggata gaggataggc tcattacata 240
aaaaaaagat atggaaatag ccataatata taacanaaaa gaaaaaaagg agcgggagag 300
ccaaatgaat cgaaagattc atgtttgggt cggaagaga tcataaaaat tgtaaaactta 360
atagcaagat aatctacttt cattaaaaga tt 392

<210> 14561
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-A4

<400> 14561

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gccgcatcac catgcgcaag accgtgggca agccccaagg ggcgggcgctc cggcagcccc 180
tggtacggcc ccgaccggt caagtacctc ggccccctct ccggcgagcc cccgagctac 240
ctcaccggca agttccccgg cgactacggc tgggacaccg ccgggctgtc cgccgacccc 300
gagaccttcg ccaagaaccg caagctgaag gtgatccatt cccgttgggc catgctcg 358

<210> 14562
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-A5

<400> 14562

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cctgcctcac cgacctctgc aacctcaacc tctcggacaa caccgagaag atcatcgctg 120

aatacatatg gatcggtgga tctggcatgg atctcaggag caaagcaagg accctctccg 180

gcccggtgac cgatcccagc aagctgcca agtggaacta cgacggctcc agcacggggc 240

aggcccccg cgaggacagc gaggtcatcc tgtaccgca ggccatcttc aaagacccat 300

tcaggagggg caacaacatc cttgtgatgt gcgattgcta ccccc 346

<210> 14563

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-035-Q1-K1-A7

<400> 14563

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gacccagacc gagctcgccc ccggacctt gcttcccatg gcactcgccc tcttctccct 180

gacacgcgcc ctcccagccg agcagctcgc ctcgctccc tcaaactcgc cgcgcgcgcc 240

ctgctccctg cgcgcgcggg ctctctagct cctctccagc gtctatcaca gtccgagcct 300

nctncacgcc ggccggacct tcacctcgcc catggcggtt tccccgctc agcgtaactc 360

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<210> 14564

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-A8

<400> 14564

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tcacccttca cattaaccat ctctattcca aattttcaga tctacacaga atttagaaca 120

attccatcca cgtaaaacat ctctgatctt gttacaccaa atgctcgtac tttctcacct 180
 catacatcca ctacaaatac aactgataca acctcggaca tttcagctat acatatacat 240
 tataaccacta cccctagatc gacattatcc acttcaacaa gcatatgctg ctctcacttt 300
 gatttgtctt accc 314

<210> 14565
 <211> 355
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-B1

<400> 14565

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 ctgactcact cccagaagag agaagaccac accacacaaa caaacacctc tttggtttct 120
 acaaataagag gacgcactga ctgagctaca ccggtaaaag ctgccaagga tatatatccc 180
 accagtcagg aatgcccgca accagacatt tcagtacata acaggagctg aacaactaac 240
 gtacaggctg acagcagcag atgtatcatc agcaacagct ccacacccat aaccagcacc 300
 tgtcctcgtc aaggccgggc ttacctnctg agaagcagtt cctnctgcac ggagc 355

<210> 14566
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B10

<400> 14566

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 agcacaatag tgtaccaaca atgtgagcca aaatattgtg cctccttatg ctctttggtc 120
 tttctgcaag tgctgctacc ggcaccattt tcccgcaatg ctcaacagct cctatagctt 180
 cccttcttcc cccgtacctc tcaccagcgg tgtcttcggg atgtgaaaac ccaattcttc 240
 aaccctatag gatccaacag gcaatcgcag ctggcatctt acctttatca cccttgttcc 300
 tccaacaatc atcagcccta ttacagcagt tacctttggg gcatttattg gcacaaaaca 360
 tcagggcaca acaactacaa caacttgtgc tagcaaacct tgctgcctac tctcagcaac 420

agcagtttct tccattcaac caactagctg cattgaactc tgctgc

466

<210> 14567
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B11

<400> 14567

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gccatcgagg tcggcaaccc ggcgccagga cccgccgggg aggaggacgc cgtccacgtg 120
ccggtcatct gcggcctctc gcggtgcaac cggagggaca tcgacgccgc gtgggaggcc 180
gtgcgccacg cgcgccggcc ccggatccac accttcacgc ccaccagcga cattcacatg 240
cagcataagc tcaggaagac gcccgaccag gtggtcgccca ttgccaggga gatggtggcc 300
tacgcccga gcctcggatg cactgacgtc gagttcagcc ccgaggacgc cggcaggtca 360
aatagagagt tcttgtatca tattctaggg gaagtcataa aaactggagc 410

<210> 14568
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B2

<400> 14568

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agtgaatctg agagtattga ttacactct tggacaagaa atggtggccc ttttatgagg 120
acagcctcag ccaataaatt catcagcttt gttcagaatc ttgagatcga cacagaattc 180
agaacaattc catcgaggga aaacctaact gatcttgtga caccaaagtc tggtagcttg 240
gcagctcatg cagtgagtag agaagcaacc gataggagct tggacatttc agcttttagat 300
atccatgata ccgctacccc tagatcgaca tttggccgtt caacaagcat cgttgtttct 360
gaaggtgact tggtgcagcc tgaaaagatt gaaaatggta ttttggtt 408

<210> 14569
<211> 369

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-B3

 <400> 14569

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 atctcctcca cggcgatggc cggcaccccc atcaaggtgg gctccttcgg cgagggccgc 120
 atcaccatgc gcaagaccgt gggcaagccc aaggtggcgg cgtccggcag cccttggtac 180
 ggccccgacc gcgtcaagta cctcggcccc ttctccggcg agccccgag ctacctcacc 240
 ggcgagttcc ccggcgacta cggtggggac accgncgggc tgtccgncga cctcgagacc 300
 ttcgccaaga acccgagct ggaggtgatc cactcccgt gggccatgct cggcgcgctc 360
 ggctgcgtc 369

<210> 14570
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-B4

 <400> 14570

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 gctgcgtctc acaatgccac ccctagggca aagcgccgct cttatgggag atcaccggcg 120
 acagctgcca tgtcatctac caccacatag acatcctcaa aggcttatgc ccgaagtcgt 180
 tttcgccggt ctggctgggg tgcttctact ccaacgtcat tgcacggctt acgagataca 240
 agaaccgaac atacactgtc accgttgtac cggcagacaa tgaacagatc tggccagtca 300
 cactgaaggt ggtgcaagga gctactgccc tgacagcact gcactgatcg atcattatga 360
 cgccgat 367

<210> 14571
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-B5

<400> 14571

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cctcgtcctc gtccgatata gcagcggaac aaggatcatg gcttccaggt ggctgccgtg 120

gcaccgacgc cgtgcgcgcg ctctcctgc gacttatcgt cgccctcgac cttcttgccg 180

gcggtccttg gaagccggcg gcgaatcccc cggcctcgcg agatcccggc aacccgtaaa 240

ctgggaaacc 250

<210> 14572

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B6

<400> 14572

cgcatacagtc actctctcga cttcggatcat ccactcttta ccaactacta cacgctgtgc 60

ctcaaaaagc cttcgtcttt ctaaatcgcc tttttcaaat cacctgaacg gttctatctt 120

ccatttcacc caccaacatt tcaaaattcc tttcacggtt gttaccggtg cccttt 176

<210> 14573

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B7

<400> 14573

aggagccctg ccaagaatgg ctggacacga tcgaagttat gtgtaacgag atgttaggga 60

actatacgaa aaaagaagat cagttgatga ctgcagcctt cgactcccga ccgaagcgaa 120

gattgaatca agtaatggat gctctacatt ttgaatatcc tgattatgag cggttgaaca 180

agggcgccga agggcagaaa agaaagagaa ttgtcagtg tgtgggcaga caggccgcta 240

gaacggtaaa agaagatgaa gaaaaactga cgaagaggaa actgagcctt gagccgacaa 300

cggttgctcc gaagaagaga aaagctgcag ctctaaagca aaaggcgact gatattgaag 360

aagaaaactcc tgcatacct tctgttgccg atgtggcaga aattctaa 408

<210> 14574

<211> 380
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-B8

<400> 14574

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 agcaccgccg cggcttcccg ctggctccgc tctgtctctc cctcctggcc gccgccgct 120
 acggccgcct catctccgac ggcgcccgct ccgcgcagct cctctcgggtg atccgcctct 180
 cgggggtcctc gatggccgcg gggcgggcca acaaggccga ggagaagtgc gagcagtcct 240
 acgggttcct cccctgcacc accaccgtgc tcggcaacct cttcctcgtg ctgacgtacg 300
 gctacctcat gtacaaggcg gccacgtacc tgtcggcggn gagcgagctg ctgctcgaga 360
 tcatggggcc ccggcctcgt 380

<210> 14575
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-F8

<400> 14575

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 tcaggtggta gtcccggcga gcgagatctc cccactccag gctctctccc atcgctcgct 120
 gccgcctcat gttgtttgcy gccgtgctcg ccaaccgcgg cacggaggcg tcgatccgac 180
 cgggagccct tcgcaatgga caaagccttc ctctctccg gcaatgaggg catcgctcggc 240
 tcgtcgctaa cgtgagcacg tggcagaccc tgctgcccc atccttcttc atcttacta 300
 agtgaggaac tctctcgacc cccttcccc cccttcttgt cttcggagtt cggatggctg 360
 gagaacacgg tgtttggtca tggcttctag aaggtggtgt tttgcattta aaaaggaaaa 420
 aattggag 428

<210> 14576
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-034-Q1-K1-G3

<400> 14576

gaaaattcta ccattctgat tctttttctt ttgctacaat acaatacact tttacattgt 60
cattttccaa caataacact ataatatatt tgaaacaaga aatttgggtca tgggacatag 120
ttgtttgtcc taatgcagct agctcatttg ttttcctttg attcagctac aacatcagta 180
gccacattcg ttgttctggg agtcactgca ctctatcttt cactgaagaa aagatataat 240
gaagcaatac atctcanagt agaaatgttt ctcaaaacat atggcacatc aaaaccacaca 300
aggtagactt tctccgaagt taagaagata gctaggcggt tcaaggaaaa agtaagccaa 360
ggtaggattcg gaactgttta caaagggcag ctaccaaagt gtgttccagt ggcgggtcaaa 420
atgc 424

<210> 14577
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-G6

<400> 14577

agaaaacgaa gaagaagcta tagtcgtaga agaagttgtc ccgcaagctg agaatcgttc 60
ggttgagaac aacttctatt ttgacatttg tgggacagat ccagaacctc ctgcaacaca 120
agataagccc cgatgcattt acccctttcc ttgttgTTTT aaactcttta tcacttgaga 180
tgatgcatta ggtgatagga gttgtgtgct aaacaattgc tgcatttcct tggaactgat 240
taccattcct tgatacctgt ttacttaaa gttttctgat gcttagcttt gctttagaaa 300
acaaaatggt ttggttttaa caaagatga tgcttcatat gggatgggaa gttttcaaag 360
aaaagacttg atggtgaatc catcttggtc atgatgggtt caacatctaa aaatatgtac 420
ctatgtctg 429

<210> 14578
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-G7

<400> 14578

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agaagaagca ccagtgcctg atcgatggcg gccagggctc tcctctccgg ccggcagctg 120
ctggggccgtc ccgtgcagtc ggccgtctct aggtcgtcgg cgaggaaggc gcccttcgtc 180
gtcagggcca gtcacagccc ttcagccaag caaggtgccg acaggcagct gtgggttcgcg 240
tccaagcagt cctctctcta cctcgatggc acgctgcccc gcgactatgg cttcgacccg 300
cttggcctct cggacccccg aggcaccggg ggcttcacg agcccaagtg gctggcctac 360
ggcgaggtga tcaacggccg ctacgccatg ctgggcgcgg tgg 403

<210> 14579

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-G8

<400> 14579

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cattacttta tttccaaact gtaacaacac taaacctat actacactat tcactacatc 120
catatatcac cctacctgat acgatgcaat taccgacgaa aaaccttttt ccaacacata 180
tg 182

<210> 14580

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-H1

<400> 14580

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ttcttcataa caatgctcat cttgcccac gagctatata acctgagacg gtctttataa 120
cttctaacgg atcttggaag cttgggtggg ttgggtttgc tctttcagtt gatcaagcca 180
caggtggttt gacttcatca cagctattcc attattcgga ctatgatgtc gaggatacag 240

ctttacctct tcaaccgtcg ttgaactata ctgcaccaga attgggtcga agtggagatt 300
 ctaaagttgg ctctgcttgt gatatgttta gctttggatg tctagcttac catctggttg 360
 ctcgtagacc acttctggac tgccataaca atgttaaaat gtacatgaat gccttgacat 420
 atttaac 427

<210> 14581
 <211> 328
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-H3

<400> 14581

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 atagtaacaa aactgaatgg acgaccatat cgcccgtag gtctcttacg gaatcattgg 120
 taagtggcac aacatcttcg acgattgcgg attccgtgaa atccatgctg acccaattaa 180
 actcgagcgt ccgcacaagc gtccgccaca gaagcagaat gcggagaatg gaacgaccac 240
 caacgtttat gaaccacagg aattgactaa atacgtgtgc atcaacggac acaacgggct 300
 atccctgaac gatcttatgc caaaagga 328

<210> 14582
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-H5

<400> 14582

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 ttatacccac ccaatcgacc gacgcaatcg aaaccgcctc ccatctcatc cgtctctctc 120
 gaatcccacc gtgcgctcac tgcgatggac ggctcatcca agcggatcgg cggtggcggc 180
 gacgacatgc ccagccccga ccacgaccag aacgccagcc ccaacgtccc gccgtccgcc 240
 gctggtgacg gcggcgcatc agccactgcg gcggcagcgc ccgccgncgg gaggcggccg 300
 ttcaccagcc tcagccaaga ggaagccgac ctgcgcccttg cccgcgtcct ccaggagcag 360

gagcgggCGT acatgatgct gaccggcgGC gagtacgcga tctcggacgc cgagagctac 420
gactacgac 429

<210> 14583
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-A1

<400> 14583

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acactaaaca tcaactttttg ttgcacagat ggcacgacat aaaaccacac aaagcagccg 120
ctcactgtca cgacggggag ctcgttgctc cgtcacgcaa ggcagccgcc tagcggggcg 180
ccgacgtaac gtatactcat atcatatctc gccgtcccat agttcctcga atgacttgta 240
gggcccgtgc tcggagacgt atcgacggcc ctggttgaac ttcagctggg 290

<210> 14584
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-A2

<400> 14584

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acagtattcg acatccacac cgtctcctg tgctatcaat ttctgtaac cacttggttg 120
taaacttctt tctgtgtttt acccaagacg gtgcatgtga ttctgttttg ggaaaatcac 180
gtattttaccg ctacccaat agactcggat agtacaatgt catcagaaaa agcaaactgc 240
acacatgaaa ctttatgtgt tcttggtgca ggtagcgtct ctactatggg acatctctaa 300
attagcttaa ggcgatatat gatatgccca ctagagaaac tacatcctga ggcactcacc 360
tttacttgga ctatcttagg gttatcgctg atatggatat gggttacata cttctct 417

<210> 14585
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-F7

<400> 14585

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caagtctatg cttttgacaa caactaacia ccatatatat gttctggatg catatggagg 180
ggataagagg tgtggcttta gtttagagcc atctcccaat gtaacaaatg aagctgcttt 240
cactccagat ggtcaatatg taatttcagg atcaggatg ggaaccctgc acgcttgga 300
catcaatata gtacaagagc attgaagtgg gccctcgtc gagcgatgtt tgcaactgca 360
tcaactgccc taactttctg gattcccaac caatcgaatt aggatcagg gcatggagaa 420
ag 422

<210> 14586

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D1

<400> 14586

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gacgttccgt tccatcgcca tggcggacca gcttagcgag gagcagattg ccgagttcaa 120
ggaagctttc agcctcttcg acaaggacgg cgacggttgc atcacaacca aggagctcgg 180
aacctgatg cggctctctg ggcagaacct caccgaggcg gagctgcagg acatgatcgc 240
cgaggtggac agcaacggca gcggcaccat cgacgagcag gagttcctgg gcctgatggc 300
gcgcaagatg agggacgccg agtcgga 327

<210> 14587

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D2

<400> 14587

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gaagcttctc catgggacac cgagcctcgt agacgaagca gaggggacca gagaaaccga 120
 ggagcaagaa gcagggagcc atggcggttcc ttctacccaa gtcacaacg ccgtcctgca 180
 agttgcccc gagc 194

<210> 14588
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D4

<400> 14588

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 ctgcctgccca tggcgtgccc aggctccagc tcgccctgcg ctaagattcc gtctccctct 120
 acgcatctct ctctggctgc tcgctctcag tggagctcgg tctccatctg catgcagccg 180
 tcgagctccc ctgctcgtcg gtgcgcccttc cctctatccg cttgcgcgca gccgggtccc 240
 tgctctggtc gtcgggcgcg ccaggccctg ctggggctca gctccagtcg aacgcgcgcg 300
 ctgggtccctg cactcgccctg gcgttcggcc cttgcttccc atggggcgga ctcccagcgc 360
 cgcggtacc tttctctggt gcttggttag c 391

<210> 14589
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D7

<400> 14589

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 agccacctcc tccgcaccca tccccgcgc cggtcgccga tgagctcgga aggctgggac 180
 gctgaccgca attttatggg gagaggatgc cagagctgcg aagcaatact cgtcaagcac 240
 gcttaaggtc taagaagctt gacgatctgc agccaggaga gccgcttgcg aaaccggtgt 300
 cacctgctct gccgagcgca cggaagcgtg ctctacacg tgctgctagg ggcagaaagg 360
 gtgctgctgg gagaggagtg ccttcgcac caaagcctag aagaaagggg gttgatattg 420

<210> 14590
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D8

<400> 14590

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 aggacgcgga ggccggcatcg gccggcagccc cggggccagg ggcgacgggtg gacccgatgc 120
 gcctagcgtc gcgggtggcgg tcccagacgg agtgggaccg cgcggtgccg gagctggagg 180
 ctgagccgga gccgtccgag ctcaacaccg tcaacagtcc gggactcttc tccgtcgtct 240
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 tcgtgcaagc cggaccgccc ggttccacgc gccgggccgg gtactacttc gagatggccg 360
 tcaagaacgc gggatacaag gggcagacat ccataggggtt cagagcgag agctttcaga 420
 tgaggc 426

<210> 14591
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-E1

<400> 14591

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 cgacaccgtc agggactcgc tggggctgtc caagatgggc ttcgtgggtg cgtccaaggt 120
 gagcgacgag gacgaggcca agaggtacga gcaggagatg atggagtctg ggacggcgtc 180
 gccggagtac gtgatcgtcg cggccgtcgc gctgctcaac ctcgtgtgcc tggcagggat 240
 ggccggcgga ctggatgtgt tcttcgtcca agtcgctctc tgcgggggtgc tgggtgctct 300
 caacgtcccc gtctatgaag ccatgttcgt caggaaggac aaggggagga tgccgttccc 360
 gatcacgcta gcctncgttg gctttgtgac gctggccctc attgtgccat tcttttga 418

<210> 14592
 <211> 369

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-034-Q1-K1-E2

 <400> 14592

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 gagtaaacct atttcttctg ggggatcaga acctacttgg aacaaccag gtttggtgac 120
 gatgacaatg taataataag tgggttttga cgcggaatc aggcagagga gaggaagagt 180
 ttggtggtgg ggtggggatc atcatgaatg gaggcacaaa acgggaatca gtggggaagg 240
 tctgaaaacc atgaaccaa aggggtttga tggcgagaa gaagaagccc ctttgggcga 300
 agtgaccgca atcaaagcaa caacttgggg tcaagagatg gtggcagctg gggctcttgc 360
 aggggaaat 369

<210> 14593
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-034-Q1-K1-E3

 <400> 14593

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 ttcctttttt tttgaaaatt atgtgataat tatgagaacc aatcctacta cttecggtcc 120
 cgggatttcc acaattgaag aaaaaagcgt agggcgtatt gatcaaatta ttggaccgt 180
 gctggatata acttttcccc cgggcaagtt gccttatatt tataatgctt tgatagtcaa 240
 gagtcgagac actgccgata agcaaattaa tgtgacttgt gaggtacaac aattattagg 300
 aaataatcga gttagagctg tggctatgag tgctacagag gggttgatga gaggaatgga 360
 agtgattgac acgggaactc ctctcagtgt tccagtcggt ggagctactc tcggacgaat 420
 tttta 424

<210> 14594
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-E4

<400> 14594

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gtgctcgtcg ccttgggcct gtgcgacctg ggctcaacgc gcgcgccctt gggcagcaag 120
ccgcagcggg agttcgacta cttcgcgctc tccctccagt ggcccggcac catctgcgcc 180
tncacccgcc actgctgcgc caccaacggc tgctgccgct cggagcctct ccagacgttc 240
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accaattcg agatggacaa gatattgcca ctggaagaag tgcttgacaa gtactggccg 360
tccctctact gtcctcaaac tggaacatgc ttcagcggca agggactctt ctgggctcac 420
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<210> 14595

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-E5

<400> 14595

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gcgtccgtca ccgcccgcgc cccggtcgca gccctgcgcc cgtcgtcgtc gtcggccttc 120
cttggccact ctagccgcct cggccgcact gctaccgcgt cggcgacgag gcggagcctc 180
aaggcggagg ccaagggcga gtgggtcccg ggcttccct cccccgcta cctcgacggc 240
agcctgccgg gtgacaatgg cttcgacctg ttgggcctgg cggaggacct ggagaacctg 300
aggtggtacg tgcaagcgga gctggtgaac gggcgggtgg cgatgctggg cgtggccggg 360
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<210> 14596

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-F2

<400> 14596

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 acacagttag ttctttacgg aagatttatg aggtgtttgg tttgatgaat cactctatcc 180
 aaaatgaagt ggtgcatcat ggggtccattc ctcaaatttg ggggatgac ttcattccac 240
 ata 243

<210> 14597
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-F5

<400> 14597

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 cgccgatgca gctgccgtcg ccgttcgcgg agctagtcaa gggttcctcc ggcctcgaga 180
 agatcggtgt tgcgggcgt cgcaactgct gtgccgagat ctatctttat ggaggtcaag 240
 taacatcatg gaagaatgac aatggggaag agttgctttt tctcagcagc aaggctattt 300
 tcaaacctcc aaaagctatt cgtgggtgga taccaatttg ctttcccaa tttggaacac 360
 atggaaatct tgagcaacat ggatttgcta ggaaaccgtt ttggactatc gacaacaacc 420
 c 421

<210> 14598
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-C8

<400> 14598

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 ccggccatca gtgtctcatt gggaacgccg cgggtgccgc ggtgaacgcc gctgggaatg 180
 atctcgacat ggcagacctt gtttggggcc ggttgctgctc gtgatctang gttgggtctgc 240

tctatggtga gtcgctagtg cctgctccac cgtgggttggg aactctactg cgtcgtcggg 300
 ccggcttaac accgtcagag ttggggcgccg ccggcacgcg cagaggaagc gcggggcgcg 360
 gtggtgctgg agcctaaggc tgtaagcgct atctgagtgg g 401

<210> 14599
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-H8
 <400> 14599

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 caggctcccc tatcccttcc tggtccttca aaaagactgg actggatctt ccagagttc 180
 ccgttcggag agccgcggga tcttcttcca cgaggcttcg atctgctgct ctccgtcggc 240
 gtgttgggga cttgcacctt atccgaagat gtcttttcgg agcatggttc gtgatataag 300
 ggaaaagtth gggaatatat cgaggcgga ctttgagggtg agaattcacc acagagggaa 360
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 ggct 424

<210> 14600
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-A1
 <400> 14600

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 tgctcggcgt ggcggcagcg gacgtggcgt cgatcatcac gcaggacgtg tacaaccaga 180
 tgctgccccaa ccgcgacaac acgcagtgcc ccgccaacgg cttctacacc tacgacgcct 240
 tcatccaggc cgtcaacttc ttcccggggg tcggcaccgg ctccagcacc gacgaactca 300

acaagcgca gctcgccgnc ttcttcggcc agacctccca cgagactacc ggtggcacga 360
caggtg 366

<210> 14601
<211> 330
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-034-Q1-K1-A2

<400> 14601

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ctggcgccat ctaatttttg ccattgggtg ctgtcattga ttgttgcttt gcgaatcctt 120
ggttggtgct ttgctgtctt gagaatcctg tagacagtgg ggctagaatt aaacaacttg 180
aacatctgat tgtacaagta acctcttgta attttctttt aacacaaaag gaatgatact 240
ctagagaaaag atattgntgt ccattcatgt ctgntatgtt tccctttctt aacttataaa 300
attaccgtat tcttaatttt ctgcaaaagc 330

<210> 14602
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-A4

<400> 14602

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cttgaccca cttcagcttc aaatcttctt ggctcaacta ggacagtga gacgttgctt 180
gaagtcgaag cttttgctct gagggctgac gacttgaagt ttgttgccac acaatttagg 240
aggctccaca gcaaacaact tcagcatacc ttccggtttt actcacagca atggaagacc 300
tggtgctgctt gcttcataca agcagcttgg cacagatact gtaagaagaa gctggaagag 360
gctttatatg agaaggagaa gaggttacia gcagcaattt gtagtgatgg cactacttcg 420
c 421

<210> 14603
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-A7

<400> 14603

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atgcatgatg caagactatc caaagacgtt gcctccctca gcaaaagttg gattcacggt 180
gatggataca tggcttgctt acgctcctgt gaagaataat cccgaagacg cagctaaagt 240
tccaaagggc aacccttata atagtgaac atccggagag atggcaattt acagggcgaa 300
cagccttatt ttgagaaagg ctggtgctca gatagctgat cctgttgctt acaccttcaa 360
cggacaagag gtagaggttt ggccacgcgt aacctggagc ccacgggggg gtc 413

<210> 14604
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-A8

<400> 14604

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cttgacccca cttcagcttc aaatcttctt ggctcaacta ggacagtga gacgttgtct 180
gaagtcgaag cttttgctct gagggctgac gacttgaagt atgttgccac acaatttaag 240
aggcttcaca gcaaacaact tcagcatacc ttctggtttt actcacagca atggaagacc 300
tgtgctgctt gctttatac 319

<210> 14605
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-B1

<400> 14605

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tgggtgtcgt gaagctgcag aagcggctcg ccgcgagcgt cctcaagtgt gggaaaggca 120

aagtctggct tgaccccaat gaagtcagcg agatctccat ggctaaactcc cgccagaaca 180

tccggaagtt ggtaaggat gggtttatca tcaggaagcc tcagaaggtt cactctaggt 240

cccgtgcaag aagggcacat gaggccaagc agaagggaaa gcactctgga tatggcaagc 300

gcaggggtac cagggaggct aggctcccca ccaagattct gtggatgagg aggatgcgtg 360

ttctgaggcg cctgctccgc 380

<210> 14606

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-B3

<400> 14606

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gcggcggata tggcgtagcg gccgncgatg aaggcggcaa ggccgggttn aggttggcat 120

gatggatccg cacacaggat ccgcatcacg ctctctcca agagcgtcaa gaacctcgag 180

aaagtctgcg gggatctggt gaagggcgcc aagggttaagg agtcaaggt caagggcccc 240

gtgcggatgc ctaccaaggt gctccacatc accaccagga agtctccctg tggagaaggt 300

accaacacct gggatcgctt tgagatgagg attcacaaga gggatgatcga tctcgtcagt 360

acaccagacg ttgtcaagca gatcacctca atca 394

<210> 14607

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-B4

<400> 14607

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ccgcctccg ttccataatt caccagcgtc gtctaccca tatctcccat cgtcttctcc 120

ctcgcgccat cagcttcccc aagccagcgg cgaccatgat ctccccggac accatccgca 180
 cggccatcgg cgtcatcggc aatggaactg cactcgtgct cttcctctcc ccagtgccta 240
 cgttcatccg catctggaag aaagggtcgg tggagcagta ctcggcgatc ccgtacgtgg 300
 cgacgctgct gaactgcatg atgtgggtgc t 331

<210> 14608
 <211> 208
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-B6

<400> 14608

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 gggggagaag aagaaggac tgttgcccga gtggatgaac ttgacaacag aggacgccaa 120
 gacggtgctg gccgcggtag ctatctcgct cgctttccga accttcgtcg ccgagccgcg 180
 cttcatccnc tcgctctcca tgtttccc 208

<210> 14609
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-C1

<400> 14609

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 tgaaggatgt tgtgtttaag ttggaggccc gtggtatcaa agccactgag ctacatggag 120
 accttggaag gcttgcaagg tcgacagttt tgaaaaagtt caaggatggt gaattcagag 180
 ttctcgttac gaatgagctg tctgccagag gactggacgt gccagaatgt gaccttgtgg 240
 ttaatctgga ccttccaact gactccacac attatgctca cagagctgga agaactggac 300
 gtcttgggcg gaaagggatc gtggtcacia tatgcgaaga aagcgaggga tttgttgtaa 360
 gaaaaatgcg caagcagtta gatgtggcca tcaagccatg cgagttcac 409

<210> 14610

<211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-034-Q1-K1-C3

 <400> 14610

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 tccggtctcg actaagcctc cctggccagc caacctgcga tctccaccag cttcacgctg 120
 agcagcctga tatcagcaag gaaccccatg atgagcacga acctgcagag gaatggcaag 180
 aacacctgca tcacgatttc tcgagactgg ctgcggatgc acctaagcgt gataagcttg 240
 cggtcatga actggatg 258

<210> 14611
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-034-Q1-K1-C4

 <400> 14611

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 ctctccgcc ttcgctccgc gccactacca ccgccgctg acccggaccg cgtccgtggg 180
 gccgtgccgg gccgccccgg tgggactggc cgtgcggtgc gagaagagcg acaagcagaa 240
 gaagcagccg ctgcgcgcgc tcgggccccg cgagcagcgc ttcattgttc agggagacga 300
 gctctgcggc cccgacatat ggaatacaac ctggtatcct aaagctgcag atcatgtaac 360
 taccgagaag acatggtatg ttgttgatgc aacagacaag atcctaggca ggctagcatc 420
 caccattg 428

<210> 14612
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-H7

 <400> 14612

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gcggtctgag gagctgcagc gccgtgggag tgcccagcct gctggctccg tcgtcccggg 120
ccggccgcct ggccgcttc tgccccaacg ccaccacctc tggccgcgtc accatgtccg 180
cggagtggat gcccggccag ccacgccctg cccacctcga cggctcctct cccggggact 240
tcggcttcga tccgtgggag ctccgcaccg tgccggagaa cttcgagcgg ttcaaggagt 300
cagaggtgta ccaactgccg tggggccatgc ttgccgtccc cgggatcctt gtgccggaag 360
ctctgggcct gggcaactgg gtgaaggcgc angagtgggc ggcgtcccc ggccggcagg 420
ccacgtacct gg 432

<210> 14613
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-032-Q1-K1-F4
<400> 14613

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gccgggaccc ccatcaagggt gggctccttc ggccagggcc gcacacccat gcgcaagacc 120
gtgggcaagc ccaagggtggc ggcgtccggc agcccttggt acggccccga ccgctcaag 180
tacctcggcc cttctccgg cgagcccccg agctacctca ccggcgagtt cccggcgac 240
tacggctggg acaccgcgg gctgtccgc gaccccgaga cttcgccaa gaaccgcgag 300
ctggaggtga tccactcccg ctgggccatg ctgggcgcgc tcggctgctt cttccccgag 360
ctgctctccc gcaacggcgt caagtccgc gagggcgtct ggttcaaggg ccggctccag 420
atcttcagcg agggcgggct ggacta 446

<210> 14614
<211> 435
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-032-Q1-K1-F5
<400> 14614

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 caatctcagt tctagctttc attgttcttg tccctgttaa ttggaccaat gataactctgc 180
 aattctcgaa gttagagcac agcaatgttg ataagctttc aatatcaaac ataccagttg 240
 gatcaaaaag gtttatagcc cacttggcaa tggcgtatgt tttcacattt tggacctgct 300
 atgtactatt acgtgagtat gaagtagttg caaagatgag actgcgattt ctttcatcag 360
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 aatcaattag tgagc 435

<210> 14615
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-F7
 <400> 14615

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 aataagtgag aagaagcttt cgactcctat tgaggctcta tgtaaattccc atcctgtgga 180
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 tttcttgagg catgtctttc gagaattgtt tgagcgcgaa ggctatcaat ttgattatgt 300
 gtatgactgg actttgctga agtgtaagca atcccagaag gctaagggtc agcaaggatg 360
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<210> 14616
 <211> 319
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-F8
 <400> 14616

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aggccaccgt cgtcctcggc gtggccacgg agaagaaggc cgcgcccagag ttcgtcgagg 180
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<210> 14617
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-G2
 <400> 14617

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 catacatagg tatngngtgg tgtgtgtgag agagagag 398

<210> 14618
 <211> 124
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-G4
 <400> 14618

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 accaactaac accgacctac tggactacta tcaacaacat cttcacccca aaaaacctcc 120
 cact 124

<210> 14619
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-G6

<400> 14619

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agataagaac gcctcaccgc agttcgtcga ggccgttgcg gagtcctgcg aggccgccc 180
cggctgcaac tgcagtggca actgcaagtg caaccctgc aactgctgat cacatcgatc 240
gacgacctg gatatgatta ttatctatct agcttggtggt ggtggttgaa caataataag 300
cgaggccgaa ctggctgcca tacataggta ttg 333

<210> 14620

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-G8

<400> 14620

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tcgccggctg cgccgacgtt cttccctttt ggcccgagg ccgaggggtg ggacgtcacc 240
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tttgacatga atttatctgc tctacgggag aggattgata ctgcctttaa gtttggtcct 360
gacgttgact ntgttctgac ttacaccgat gaggatggtg atattgtcat gctagatgat 420
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<210> 14621

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-H2

<400> 14621

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 tcggccgtct ctaggtcgtc ggcgaggaag gcgcccttcg tcgtcagggc cagctccagc 180
 cctccagcca agcaaggtgc cgacaggcag ctgtgggttc cgtccaagca gtccctctcc 240
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 gagggcaccg ggggcttcat cgagcccaag tggctggcct atggcgaggt gatcaacggc 360
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 atcattcccc cgg 433

<210> 14622
 <211> 126
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-H3
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 acctgt 126

<210> 14623
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-H4
 <400> 14623

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 tgggcggatc gctggcttct tcagtgagga caatgtgttg gttggcaacc ttgttgtgca 120
 taatcagaaa ttatttgaga caactcgaga aaccagccct actttcatca ttgggaagtt 180
 tgatggaatt cttgggtctcg gatttctga aatttctgta ggaggagccc ctccaatttg 240
 gcagagcatg aaacagcaga aactggtcgc aaaggatgtc ttctctttct ggcttaatc 299

<210> 14624
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-H5

 <400> 14624

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 taggggtgcga gcctggccag gtcacctacg catcagtcac caacgtgtac tgccggctcg 120
 ggcgagcgca cagagcagag gccatcttct ccgagatgat cgagcgaggc ttcgacaggt 180
 gcgtggttgc ctatggcaac atgatctcga tgtacggcaa gatcaggagg gcgtcggaag 240
 ccacgaggct gctggccctg atgaagcaga aggggtgcga gcccaacgtg ctggtgtaca 300
 actccctgct cgacatgcac ggcaagctgg ggaactcgaa gcaggccgag aagatctgga 360
 aggagatggt gcggcgcaag gtccggncgg accggatcag ctacacggnc atcatnctgg 420
 cgaaca 426

<210> 14625
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-H6

 <400> 14625

 gccatccaga tgtgtatgag ccatgtgatg attcctttgc ccttgttgat gcactagtct 60
 cagacaaggc acaactcttg aactacagc caaggttatg tatggaggta gggctctgga 120
 gtggttatgt catcacctgg ctggcaatca tgctcaggca gttaggcttt ggagcccagt 180
 acctagcaac tgacattaac caacatgct 209

<210> 14626
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-F3

 <400> 14626

cgcagctgac ggacgactga accaccgaca gacaacatgg ccgcctccgc ctccaccgtc 60
 tccggcctcg ccggcgctc cctggccagc cgcccggcgt tctccaccag cttcacgcgg 120
 ggcagccggg tgtcggcgag gaacccctg atgagcagga acctggagag gaatggcagg 180
 atcacctgca tgacgtttcc ccgggactgg ctgcngaggg acctgagcgt catcggcttc 240
 gggctcatcg gctggatg 258

<210> 14627
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-C8

<400> 14627
 ctatagcaac cgttcagca ctttcacgt cagctccagc aatggctgcc tccaccgggg 60
 cgatctcctc cacggcgatg gccggcacc ccatcaaggt gggctccttc ggcgagggcc 120
 gcatcaccat gcgcaagacc gtgggcaagc ccaaggtggc ggcgtccggc agcccctggt 180
 acggccccga ccgcgtcaag tacctcggcc ctttctccgg cgagcccccg agctacctca 240
 ccggcgagtt ccccggcgac tacggctggg acaccgncgg gctgtccgnc gaccccgaga 300
 ctttcgcaa agaccgcgag ctggaggtga tccactcccg ctgggccatg ctcggcgcg 360
 tcggctgcgt cttccccgag ctgctctccc gcaacggcgt caagttcggc gaggccgtct 420
 g 421

<210> 14628
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-D2

<400> 14628
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 tatgcgagct ttggaaagcg cgagctagtt tatccggccg ggcgtggtca ccgaggcagt 120
 agcggcgaga gaggggagga tctgatcgat gtcgtcgggc gaggacgggt actgcagctc 180

ggattcgccg cgggcggaat ccccgacca gccgcaggca gctgcggacg cggagtcgcc 240
 tcgcgccgga gccgggccga acaagcgca ccttcacgcc tcgtcgccg cagctaagcg 300
 cagccggaga tcggtggaga agcgggttgt gtcggtgccg ctggccgagt gcggtgaggg 360
 gccgncgncg tctgactcgt gggcgtggcg catgtatggg cagaagccca tcaagggtc 420
 cccctacca cgtgggta 438

<210> 14629

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-D4

<400> 14629

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 tcttgaccta cctattctct ctcgctcggc gcgcgtagaa gagaagaggc acttcttctc 120
 cctcgccggc tccccctcgc gtgtcgcaag tgcttaccct acaccgtggc cgtgggatcg 180
 tcgcccggacg ccaggcatcg gcaagcggca gcgcagccgt ccaccctgat ttgccaaga 240
 cagactaagg acttgccgcc gaccgaccag tctgccgagc agggcaacgg ttcgtgtttg 300
 cgctgccgcc ggcgaggcaa atggagccat catcatcgac gccgacgcac tgcccctgca 360
 cctgcagcat cttcacgctt gcagcgtttc ggccgcttaa gcgcagcgta tgtctttgca 420
 agaaagatga tgatg 435

<210> 14630

<211> 111

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-D5

<400> 14630

ctggaatgtg atcatatcac aaaggctcaa acgctgaatc aacatgtgct gctcttgctg 60
 gggccacaat ctgagaattc ggaagcaacc acgaatctac gccaatggag a 111

<210> 14631

<211> 416

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-D7

 <400> 14631

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 acctcaccgg agaggtcctt ggagactatg gctacgacct ttttggcctg tgcaagaagt 120
 cattggactt cgccaagtac caggcctacg agctgatcca tgccagatgg gccatgctcg 180
 gtgccgctgg cgctgtcatc ccagaggcct gcaacaagtt cggcgctaac tgtggccctg 240
 aggctgtctg gttcaagacc ggcgcgctgc tcttgacgg caacaccctc aactacttcg 300
 gcaacagcat ccccatcaac ctggtggtgg ccgtgatcgc ggaggtcac ctcgtcggcg 360
 gcgccgagta ctaccggatc accaacggac tggacctaga ggacaagctg cacccc 416

<210> 14632
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-D8

 <400> 14632

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 acaccgagaa caatttcagc cagaaactta atggattgga ttcattctgat gcacatgcat 120
 taaccagcag tgatatgaat gctcctagat ggaccagcac ttgtaaaatc gctccctacg 180
 caaaccacag ctatcaaact ggaaaacaaa atcggctaca tgtgttgcct tcagatgac 240
 tgcaatttgc tcatagagat cacgctgcaa gaacagagaa gccaaatttt gagaaagttg 300
 gcagtgggtg aataccatca gcggatttgt gcatcaagga tgattttgat aaaaggtttc 360
 aagaagatct tgatgaagca gtgcgccaaa gccttgata cgatgcttat tctggctggt 420
 acaataagca cttca 435

<210> 14633
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-E1

<400> 14633

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ctcgcgtctt cttegacatg accgtcggcg gcgccccggc gggccggatc gtgatggagc 120
tgtacgcaa cgaggtgccc aagaccgcg agaacttccg cgcgctgtgc acgggcgaga 180
agggcggtgg caagtccggg aagccgctcc actacaagg ctccaccttc caccgcgtca 240
tccccgagtt catgtgccag ggcggcgact tcaccgcg caacggcacc ggcggcgagt 300
ccatctacgg cgagaagttc cccgacgaga agttcgtgcg caagcacacc gnccccggtg 360
tgctctncat ggccaacgcc gggcccaaca ccaacggctc ccagttcttc atctgcaccg 420
tcgc 424

<210> 14634

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-E2

<400> 14634

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cgcccccttc gcaagaagg ctacatcccg ctcaccacct acctccgcac ctacaagatc 120
ggcgattacg tcgatgtcaa ggtgaacggc gccgtccaca aggggatgcc gcacaagttc 180
taccacggcc gcaccggtcg cgtctggaac gtcaccaagc gcgccatcgg cgtcgaggtc 240
aacaagcagg tcaatgggcg catcatcagg aagcgtatcc atgtccgtgt ggagcatgtg 300
cagccgtccc gctgcacaga agagttccgc ctgaggaagg cgaagaatga ccagctgaag 360
gcggatgcca aaaagcgcg c 381

<210> 14635

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-E4

<400> 14635

cgtctgtccg ctacccctcc ccgaccagat cgctacgaga cgccgcgcga tccgacgcag 60
 gccgacgccg acgacccctc tcgccgccgg cggccatggc gtacggcgac cgcgtcacca 120
 ccttcgagga ctccgagaag gagagcgagt acggctatgt ccgcaaggtc tctggacctg 180
 tggttgtggc tgatggaatg ggtgggtgctg ccatgtatga acttgttcgt gtcggacatg 240
 ataacctcat tggggaaatt atccgtcttg agggcgattc agctacaatc caagtttatg 300
 aggaaacagc tggactgatg gttaatgacc ctgtattgag aacaagaaag cctctttcag 360
 ttgaattggg acctggaatt cttggaaaca tttttgacgg tatccagcga cctctaaaaa 420
 ccatcgctat taagtcagga gat 443

<210> 14636
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-E5
 <400> 14636

caacttgggtg gtgacgtgcc atttcagaag gtttatttac atcctatgat tcggcatgca 60
 catggccgaa agatgtcaaa atcacttgggt aacgttggtg accctcttga ggtgataaat 120
 ggcatgtcac tggatgggtct tctgaaacgt ttggaagaag gcaatctgga tccaaatgaa 180
 ttaaacattg caagagatgg gaagacgaag gattttcctg atggcatagc agaatgtgggt 240
 accgatgcgc tccgcttcgc actgatatcg tacacctccc aggttcttat ggcacccagt 300
 tgagtttttt catgtttaat gtagcataca tggctttatg caatcccccc ctcttcagtc 360
 tgacaggata aatcttgata tcaagagggt ggttgatat agacaatggt gcaacaaatt 420
 atggaatgcc attcgttttg 440

<210> 14637
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-E6
 <400> 14637

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agccgcggag acgacgccgc caccgatgca gccgctacaa tgtcaacatg agcgattggt 120
 gggcaacatg tgcccttctc tctatctcgc cgtctacaga gggcggatgg cggagggtcac 180
 ggcgctgctt ctggaacaac ccgccgttgc aatagccact gccacgccgg gtattaaggg 240
 cactgctatt atgcacggac agtgcgacat acttgagttg acagccgaga ggaacaccgc 300
 tctacatgtg gctgcccagc aagggcgcca cgagctgac cgggagctct acttcagggt 360
 ctcagaccag ggccctnctca atcgccctgaa ctcggcgctg gacacgccgn tgcattccgc 420
 ggcgagggca aggca 435

<210> 14638
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-F1
 <400> 14638

gtcatctcca tctccagctc cagcgccgcc ttgctctgtg tgcttccgcc cgctctgtgt 60
 tgctattgct aaactagtgt gttctgtcgc tatgggctcc ctggccaccg cggacggggc 120
 gttgccgccg ctcaagtacc ctcaggctcg ccgggacgaa gacatcgctg acgactacca 180
 cggcgctctc gtgccggacc cttacagatg gatggagcag gtggattcga aggaggtgaa 240
 ggagttcgtg gacgcgcagg cggccgtgac cagcgccgtg ctgtccagct gcgaccaccg 300
 cgggcgcctg cgcgggcagc tcaccgcgct cttcgaccac ccgcgcttnc gcgcgcctt 360
 caaagcgccg ggcagctact tcta 384

<210> 14639
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-F2
 <400> 14639

tccactgttc tcttcttttt cctgatggcc cttgtcgtag ctgctatgct ctgtgtcatg 60
 tacaccacct cggcacaagc tgtaaggact ggatacaact cctacgaacc tgatgtaagg 120

ggtggataca actctcttcc catcaacatc ggtgggaacc actagctagg cggcgatatcg 180
 gaccctgtct cataaatcga aataatataa gactgtcttc aactgatcac actgccggtg 240
 caacactcta aatttgaggg ctacagtgc cactctagcc tatcaacggc tcacgctacc 300
 acgcgctcta caccgatgtg cccctaacc agattctctc tcccccttga tctggggcac 360
 ctatttc 367

<210> 14640
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-C7

<400> 14640

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 gacttatctt gagttaccag cgtcgcatgc ttctttgtca gtcgagtcta cacccttacc 120
 gacaaaatgc ttgagaagat tggaacacct gaggcacttg ccttgagagg gaaggctgcc 180
 gacgtacagg ccaaactagc aaatcggtc taccagaaga aattctctgg cccgaggtgg 240
 gaagcgtctg ccaagaaagg tgccaagaaa cagatgttgt tgcgggcgtt caccgtgtc 300
 aagaaccag cttatccga cactctttac atcgacagtc ttattggacc tgacacggtc 360
 aacacgatt 369

<210> 14641
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-A6

<400> 14641

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 gacgcggcaa ccaccgtgc actgcactgc acccctcgat gctccgagct cagcagcagc 120
 agcagcagcg actcgctcga ggcattgacg catccatgtc aggaaagata tacctggtcg 180
 gccgaacgag ctactgtgt taccgaagc actgacactc cagcggatgc gctgcctgac 240
 agccacttag gacgacagat tcagacggg gcgatcaaga tggcgcacga gccatcctg 300

gactatgcgg actacttata ggcggttgcg gcagatgtcg ccacgacaat ggacgaccac 360
atcctagcgc cggagctcta tagcctgcat g 391

<210> 14642
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-A7

<400> 14642

gtcggctcac acacagctag cgcgcgtcgc cgctagctta gccaccagga gtccgagctg 60
atctacaggc aaggggcaac tagctagcta gccgcgcgcc ggcgccatga tgaacctgaa 120
cctgaagcag cctctggtgc tgcccgcgca ccacagcaat gtcgtcggct cgcgcctgtc 180
gtcgtcgtcg ccctcggcag cgcgcgccag caggaggacc ggcgggcgcg tgtcctcccg 240
gtccggctcc cggcggcacg tcgggctgcc gaggatcagc tgcagcgcca ccgaggaggt 300
cagcggcgcc gtgtcgtccg tcaccgtgga gaggatgctc acggtgacgg cgtctgtgga 360
ggcgtcgcgg gccatcgggc agatgtactt ccagcgcgcc gtcgacgaca tcgg 414

<210> 14643
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-032-Q1-K1-A8

<400> 14643

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cctcgtctcg cattccgttc gagcagggga gcggccgtga gaagggaagg gagggaatta 120
aggcaagatg ttcacgaga gcttcgcgt cgagagcccc cacgtgcggt acggccccgac 180
ggagatcgag tcggagtacc ggtacgacac gacggagctg gtgcacgagg ccaaggacgg 240
cgctccccgc tgggtcgtcc gcccgaagtc cgtcaagtac aacttcgga ccagcaccgn 300
cgtccccaag ctcggggtca tgcttggtgg gtggggaggc aacaacgggt ccacgtgac 360
ggctggggtc attgccaaca gggaggggat ctcatgggcg 400

<210> 14644
 <211> 239
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-B1

 <400> 14644

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 aatcgcaactg ttggaagctc ttcgctgtca cccccaccca ccttcggcgc tcttttttag 120
 cattttcctt gggctctgga ctccaaaatc ccagcctttt gtttgcttct ctgtctcctg 180
 ctgattgggtg tccccgggtc caggactctt gatttgctcc tcgcgggggt tcgggtccca 239

<210> 14645
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-B2

 <400> 14645

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 ccgtgcgtgg aagaagatgt cgtacctgct gccgcatctg cactcgggggt gggcgggtgga 120
 ccaggccatc ctgcgcgagg aggagcgcct cgtcatcatc cgcttcggcc atgactggga 180
 cgagacctgc atgcagatgg atgaagtgtt ggcagcagta gctgagacca taaagaactt 240
 tgcggtcatc taccttgggtg acatcacaga ggtccctgat ttcaacacca tgtatgagct 300
 gtacgaccct tcgacagtga tggtcttctt ccggaacaag cacatcatga ttgatctcgg 360
 gactgggana cacaacaaga tcaactgggc cctgaaggac aagcaagagt tcacgcacat 420
 tgtggagacc gtatacaggg gc 442

<210> 14646
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-B3

 <400> 14646

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aagccaaagc tcctctgccg ctgtcactat gttgtcactg ctcacagctg tgtgctctgt 120
cttcctgtgt ttgcgatgat cacagccacc aaattcatca caccatagct agaacattct 180
atggagttgc tggcccgat gaagcttggt tgcgaatcat ctcagaacgc gaagaagaag 240
tggaagtccc tgaagagaat acaacaccac ctttggagtc tcatgcaggg tctcgtcttt 300
actttaacat ctgcgggcct gagactaact catctataaa caaagggtgac gaagctacaa 360
attattgttg attttgctcc aagggtggtat caaaagaaga 400

<210> 14647
<211> 411
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-032-Q1-K1-B4
<400> 14647

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ccgagtgtag atgatgttaa acgagtgttt aatggaactg caaacagctt cagtataatt 120
gatgcttacc caagggtactt tcgagttact ggatcagggtg aagtccggcg attagaagca 180
gcgatagatt cagtaagtgg cgaattgcta ttaaataatg gcactccttg gtggtcattc 240
tatgatacaa acccatcaga tttggcaggc tgtcaagggc tgaatgggtcc catggctata 300
agttgttctg aggagacacc tcanggcatt attggcgaaa cactcagtaa atttagcata 360
tggaagttat atattacttt tgttctagct gttgcgagat ttattaggct t 411

<210> 14648
<211> 438
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-032-Q1-K1-B5
<400> 14648

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ctgccactaa gttggcactg tccagagctg tgtgcgctgt cttcctgtgt ttgtgatgat 120

cacagccacc aaattcatca caccatagct agaacattct agggagttgc tggcccgtat 180
gaagcttggt tcgtaatcat ctcagaacgc gaagaagaag tggaagtccc tgaagagaag 240
acaacaccac ctttggagtc tcaggcaggg tctcgtctct actttaacat ctgcgggcct 300
gagactaact catctataaa caaaggtgag gaagcgacaa atttttggtg cttttgctcc 360
aaggtggtat caaaagaaga aaaacaagag tgaagatgcg ggaggacgtg gtcctncata 420
taggactttt tggtttaa 438

<210> 14649
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-B6

<400> 14649

acaaactaaa gaacacaaca gataaccaa ggagcgaggg ctgaggagt actggtgtgt 60
acattagctg aaggggaggt taagggtaga gatcgtttga tcagtatcat ctgtatatcc 120
ccatgcatgg ggtttcgttt tgtgcgctta cttctggctt gccagcgat ggttcaatgt 180
ggaaacacat gtattagtac gagaactaat agacttataa ttaatataaa tcaagcacgt 240
acgacttcta gct 253

<210> 14650
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-B7

<400> 14650

accagctgcc attgccatct actgacctgt gacctccga tttccaaaca gcccgagcga 60
gctagagcta gcagagcggc aggcacctcc ctctcaagg aacatggccc gcacgcagca 120
gttggcagta gtggcgaccg ccgtgggtggc cttggtgctg ctggcggcgg cggcgacctc 180
ggaggcggcc atcagctgcg ggcaggtggc gtcggccatc gcgccctgca tctcctacgc 240
gcgcggccag ggctcggggc cctccgccgg ctgctgcagc ggcgtcagga g 291

<210> 14651

<211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-B8

 <400> 14651

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 cgcccgaac acgagggcat gtccccgggc cctacctcgc agccttcgcc cgacgtcgcc 120
 gttgcgagca gcggcggtcca gtcgagctgg gccggcgaca tctgctcgac cttctgcggc 180
 agcaaccagg tccccaggac gccggcaggg atcaggggga aggacgcggc attgcagccg 240
 gaggtgccga gccgtgccgg cgcgcacgga cgcacatcgt catcccgagg gtccggaagc 300
 aactatgggg gatccgggct gcccaatgac agcgtccatg gtcccaagag gaagggga 358

<210> 14652
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-C1

 <400> 14652

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 cgtcgcttac caggtgctgg gtgaaaggct caaacgact atcggtgtcg cttaatgccg 120
 atcgagtcag cttaagtcgt ggtttgactc gctagggggg tgttgcgacc cgcgcaaacc 180
 ttgccgagac caacaggagc aggggaaggg gcgcagcaag acacaacaag atgggatcca 240
 gagcaagaga gctgaccttg tcaagacaga actgctcgcg gagatggcgg ctgaggagac 300
 gcggcgccgg aggtgctcgc ggagatggcg ggctgaggag acgcggcgat ggaggtgctc 360
 gcggagatgg cggctganga gacgcggncg gagtgtcgt gga 403

<210> 14653
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-C2

 <400> 14653

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 cagccagaaa gtcggtcaga cgtacccgtc agcatcttcc ggagacgtct ccgtagcagca 120
 gaatctgggg gataacataa gcctgatcga aatgtatttt ctgtcaatcg atcacgacgg 180
 ccgtaggggtt ctggactttg agcagttccg ggcatagtc aaaatgatta gatctaatacc 240
 ggatgtcgca gacgtttggc gcaagctgtc tagcacggac ggtatcagca gacaggcccg 300
 gaatcacatt gccaaactttc gcgcaatggc tgcgtaatag tcagggttct cgcgctacag 360
 atgacgagat cctgcgaatg tttcacgagt tca 393

<210> 14654
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-C3
 <400> 14654

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 gcagcaacaa cacgaggtgg aggaggtgca aggaaggc gtccaagaag aagtgcaggt 120
 cgttcaagag acgggtggtg cgggtgccg cggaggaggac aaggaggccg aggcggcgct 180
 ggtgcacaag atctccagcc tggccgccc catcgcaag ctgccatccc tgagcccgtc 240
 gccggaggtg aacgcgctct tcaccgagct cgtgacggc tgcacccgc gcagcagcgt 300
 ggacgtggag cggctgggccc cggagctgca ggagatgcgc ggcgggctga t 351

<210> 14655
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-C4
 <400> 14655

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 atggcggggac aagggcaact ctactacag gacatgcacg gcaccctcat cacaagagct 120
 tcttcgggga tggcccatat caccattcgc atgaccgtcg gcaaaccaca agtagcccca 180
 tgcggcaatc cctgatacga cctccacgt gtcaagtacc atcgccactt atccagccag 240

ccccccaact accttaccga acagtttccc gacgactacg gctgcgacac ccacgggctg 300
 cacgactacc cccatacc 318

<210> 14656
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-A4

<400> 14656

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 ttgactggca agaccataac cctggagggt gagagctccg acaccatcga caacgtgaag 120
 gcaaagatcc aggacaaaga gggcatcccc ccagaccagc agcgtctgat cttcgctggc 180
 aagcagctgg aggatggccg caccctagca gactacaaca tccagaagga gagcactctc 240
 cacctggtgc tccgcctccg tgggtggtcag taagccatgg ttcatttaag ctgctgctgt 300
 acctgggtat ctgcgtcgtc tgggtgccctc tgggtgtacct ctatatggat gtcgtcgtct 360
 aataaacatc tgtggtttgt gtgtcatgaa tcgtggttgt ggct 404

<210> 14657
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-G12

<400> 14657

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 atcgaccatg ggcggtggca acggccagaa gtccaagatg gcccgcgagc gcaacttgga 120
 gaagaacaag ggggccaagg ggagccagct cgagaccaac aagaaggcca tgagcatcca 180
 gtgcaaagtg tgcattgaaa cattcatgtg taccacgact gaagtgaagt gccgggagca 240
 cgccgaggct aagcatccca agacagacgt gtaccagtgt ttcccccatc tgaagaagtg 300
 aaaggcctga acttagcaac cagcgttggt ttggctacta cgatcgggcc agggggcggt 360
 ccttgtgttg aggggtgttca ttccgtggta tcttcccgtc agtcatgcg 409

<210> 14658
 <211> 147
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-G3

 <400> 14658

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 aatggatggt cacatgctgg aaacaag 147

<210> 14659
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-G5

 <400> 14659

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 ccctgggggtt tcgccagcgg cgagccaaac tccacgagcg ggggaagagg ggaaagcagg 120
 gacgacgagg gggcagccat ggggcagcag tcgctgatct acgcgttcgt ggcccgtggc 180
 acggtcatac tggccgagta cacggagtgc accggcaact tcaccacat cgactcccag 240
 tgctcatga agctaccgc aagcaacaac aggttcacct acaactgca cggtcacact 300
 t 301

<210> 14660
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-G7

 <400> 14660

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 tcggccgggc gggctgagcc aatggcacgg gcccttgggg cgcgaacgcc ctaacgtggg 120
 tcgngcggg cggcgagcag aggcgccgtg tgctagcttg gattctgact tannaggcgt 180

cagtcataat ccggcacacg gaagcttcgg gccaatggct tttcaaccaa gcccgatgac 240
 caattggggg aatcaacggg tcctttggaa ctaggtggaa tt 282

<210> 14661
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-G9

<400> 14661

aatttgatg aaattgagtc aaacaaaccg gtgaggcaga agataacaga gccaaagaca 60
 ccatatcacc caatgataga tgatgatgga tcattgtcgc caacacgtcc tttcgacaaa 120
 tgtcttgatg agactgtcca ggctgaagct atcttaacag ccttaaattg tgtggcttct 180
 tcaagcatta gcatttcaaa ggatgatggg tggggatcgt cagatgatga tacagatgcc 240
 atagatcaag atgctgaccc tgaagctgac acgacaaggt tgagtttcaa ggagcatcgc 300
 cgtgcccact acgatgaggt ccgcaagggt aaggagctga tgaggactgg atcccttact 360
 ggtg 364

<210> 14662
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-H10

<400> 14662

gccaaagggc atcaccgccg cgactacgat gtcagcctcg ctccaagccg cggccaggct 60
 gatgcagccg gccaaagatcg gcgccggggc gccctttgcc tcgctgccgt accgcccgtc 120
 gtcgcaactc gcctgcaggg cgttacggcg tcgaggccga acaacctagt catcacaggc 180
 gttattcatg accctagcag ccagcgccaa gacgggtca tgctggacgc ctatgtgcta 240
 cccgcagagc ctgctcatga ccgtgcagag cgggatcagg tgatgccagt tcctaagaag 300
 ggcccttgccg gccatgatct t 321

<210> 14663
 <211> 463
 <212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-H12

<400> 14663

acgcgtcggc tcgtgtcgct cccctctttg cgccgcccct agatccggca ccgcccgtg 60

ctcgagcccg cggcccacgc ccgcaggccg ggaccggtgg gcgcgcgccg ggcagtagga 120

gggagaggaa gggcgccatg gcggcgccgc cggcgagggc ccgggcccac tacgactacc 180

ttatcaagct tcttctcatt ggggatagcg gtgttggtcaa gagttgcctc ctgttgcggt 240

tctctgatgg ttccttcact acaagcttta ttaccacaat tggattgac tttaagatac 300

ggacaataga attggatggt aagcgtataa agctacagat ttgggataca tgcggccaag 360

aacgcttncg tactattacc actgcgtact accgtggagc tatgggtatc tggctggggt 420

atgatgtcac cgatgaaatc tctttcaaca acatcccga act 463

<210> 14664

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-H3

<400> 14664

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ccttgacagag ctgccccatt gccagaagag caaagatcaa caccaggtcc aggggcagca 120

gcagtagcgt ggcgaagggg tcaccaccac cagccttcca gttccagtgc agggcgctga 180

ctttcgcggc ggacaccagg cctccggctc gagct 215

<210> 14665

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-H4

<400> 14665

gagctcgctc gtccgcgtac agctgagcta ctgcaatttc gcaacaagtt gcaagcaata 60

accgaccaag gacgacgaac gggtcgatgg ccacgtcttc ctctgcagc cgcctgagta 120

gcggcaccgg cgccgcggcc atccaccggc agccggcccc tgctggagcc gtcctcgtcg 180
 tcacctgcag gcggagctcc tccgcgaccg tccgcgccga acccggtgca acggcggcgg 240
 ccccggtgc cgtaaacttg aaaaccaggg ggtggtcggt gccaaacttg ccgaagtcca 300
 agctggggccg gccccgtct tattggagaa caacaaccgg cttccggcct tggcgggcca 360
 agggcttaac ctggtctaac acccggccgc taacaaaaat ggcccgaacc aaggtgtccg 420
 gctt 424

<210> 14666
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-H6

<400> 14666

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 gcccgtagcc cggcgcgctt cccttcaaag ccaactgttc gcctcctcct tctacttaag 120
 cgcagccggc cccggccggc actcgcatcc ggtagctcga tcacttcttc ctctggattt 180
 tgggaaggag gcatcggacg tcggatgcat gacacactca ttgcattagc gcctacgcct 240

<210> 14667
 <211> 55
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-H8

<400> 14667

gcccgcggag ccatgctcgg cgcgctcggc tgtgtcttcc ccgagctgct ctccc 55

<210> 14668
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-A1

<400> 14668

aaaaccata tccctccggc ataaacccaa aaagctgcaa gcagtgtgac caaaagcagg 60

tcaggcggca gctcgcgtcc ttctgtctcc actgctccag atcctgcgct cccctcctcg 240
agcccaagaa cctgcccgat gagttcgagg ccgtaccggc gacgacgacg ccgncgctgc 300
cggacgccgc cccgaagctg gggatttcta acaagttcat ccgaggcctc tgcggtgacc 360
cgcagaccga gcagctggcc ttctgagggct acaggaaggc g 401

<210> 14671
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-032-Q1-K1-A3

<400> 14671

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ggcaggtgga cgacaagccg ccgtacgccg ccgtggacga caccatgacc accaccacga 120
agaagatggt ggaggagcag ctctcagacg acgccggcgg cggcggcgag ctgccagagc 180
agaactaccg tggatggaag gccatgccct acgtcatagg gaacgagacg tgcgagaagc 240
tgggcaccat cggcaccacg gccaacctgc tgggtgtacct caccaccgtg tacggcatgt 300
cgggcgccag cgccgncacc ctgctcagcc tctggtcggg caccg 345

<210> 14672
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-E2

<400> 14672

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tccggccggc gncgncgncg cgccccgcc ccacgatgcg tgcttggtgc ctaccatcgc 120
gcaatccgtc cttaggaact cccgacacgt gctcgacgct ggatcgccgn cttgccgacc 180
cggtcggcgt catcaaggaa gataaggtga cgttggcaag gccagttaat cttcttaacg 240
caaccaagga tgactacatg gccgaactat ccaatgcctg ggggtgccaa ttttaacagg 300
attgcaaccc gaatttggag aactgggcta actaattcca agttatccg catttggaa 360

tgaaggaatc ggcatttagg ccagccttat ttccagagat ccggttcaag ggtttccaac 420
aattt 425

<210> 14673
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-E3

<400> 14673

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ggcccttgtc gtaactgcta tggctctgtgt catgtacacc acctcgggac aagcaagaaa 120
ggaatggcta caactcgtac gaaccttatt gaaaggggtg attccaattt tgttccattc 180
aacggcggtg ccagccctta cttagccggt gaatcgaacc ctgtttaaaa attcgaatta 240
ttttagaact gctttaaacg gttcacattg cggttcccca accttaaatt tggg 294

<210> 14674
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-E4

<400> 14674

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agaatgccct ggtcccacaa ggagcgagta atttgaggca gagaccgaca cagatggcag 120
cggttatggt gtctcgccaa ggccgggagc tgcagcggtg cagcgcgagc acggccgggc 180
gcgtggtggt gggctgcgtc ccgtaccgcg tgcgcggggg cgacggcaag gtggaggtcc 240
tggtgatcag ctgcgagaag atgggccccg cgaagggcgt gctgatccca aaggacggtt 300
ggaagctgaa cgagtccatg gccaaaggcg ccaggtgcaa ggccccctag gcggcctgct 360
ttctccggtt gac 373

<210> 14675
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-E5

<400> 14675

atcgaatccg tcggatcggg agcgggagag accactccca aatcgcgtcg cgtcacgtgg 60

agagcgagag cggaagatgt gcgcgcgggg gaaccgatcc gactgatgg 109

<210> 14676

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-030-Q1-K1-E6

<400> 14676

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gaggctgcac gtcacggagc tcgggggtggc agccttctc ttctcctgcg gctggtacga 180

tcttgcgtac gggagggacc atntcttcat ctaacctctc ttccagtctg tcgcgttttt 240

catcgctcggc gtcggctacg tcggcaccat cgtcccgcag tcgtagcgga agcgtgtcca 300

gatcatccgc ttctctctgg ttttcgcatt gtgtcttggg taagtctcgt agtggatgac 360

cggtttgagg taaagatcat gcatg 385

<210> 14677

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-E7

<400> 14677

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agcgaggaac ccagtccagt cccgggaatg gagtgcgtat tgggcgtggt tggccgcgac 120

ttcgtgctgg tggcggccga caccttcgcc gtgcagagta ttctcgtcca caagaccgac 180

gaggacaaag tgatggtgct cgactcgcaa aagc 214

<210> 14678

<211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-E8

 <400> 14678

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 gtcgatggcg gagcgcggcg gcgagcgtgg cggcgagcgc ggcggtttg gccgtggctt 120
 cgggcgctgc tggcgcggcg accgtggccg gcgcccaagg gggccgcgcg ggccggcgca 180
 aggggcaaag gaatgggtcc ccggttccaa acttcggcgg cttgttcagg ggaaccaggt 240
 ccaccaggtc caaggggacc aacttcaatt ggttccc 277

<210> 14679
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-F1

 <400> 14679

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 cggccgggcg ggctgagcca atggcacggg cccttggggc gcgaacgccc taacgtgggt 120
 cggggcgggc ggcgagcaaa agcgccggtt gctagcttgg attcttactt aaaagccgtc 180
 aatcataatc cggcacaccg taacttcgcg ccaatggctt ttcaaccaag cgcgatgacc 240
 aattgtgtga atcaaccggt ccttttgtac taaggatgaat tacta 285

<210> 14680
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-F10

 <400> 14680

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 aacgtaatga gctacaccat tgtcatccaa tgcttcggga aggcgcatag gatacagcaa 120
 gcggtggagg tgcttgagtc cgggctggag aagggtctca agcccagcga tcggctctgt 180

gggtgcttgc tctctgtcat cgctctgagc agcgctcgagg agatggaaat ggtgctttcc 240
tacttgaaaa aggtcaacca gaacctgggc aagctgatca gagcgctcgg cgacgccccat 300
gtcgactgtg acgatatcac aa 322

<210> 14681
<211> 340
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-F11

<400> 14681

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cgcgccacc acgcgcctcg cgctggcggc ggcgctgctt ctgctgctgc tcgcgccgt 120
cgccgcggcg gcggacagca tgtcgatcgt ctctacggc gagcggagcg aggaggaggc 180
gcggcggatg tacgccgagt ggatggcggc gcacggccgg acctacaacg ccgtcggcga 240
ggaggagcgc aggttcgagg tgttcaggga caacctccgc tacgtcgacg cccacaacgc 300
cgccgccgac gcgggcgtcc actccttccg nctcgggctc 340

<210> 14682
<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-F12

<400> 14682

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ggcagagatg cacgggtaca ccacgacact cgcgtcagcc aatgcgctgc taatgcatat 120
actacagaag ctgcgccagg cgctctacag catgtagatc acatcctact gaaagcggat 180
caacgaggat acgcacccga tctacaccga gaacatagca gcacacggcc ggacctacaa 240
ctcacagctg ccatcagtaa cacatgtacc agaatgccag ggacaaccta cgatacatct 300
acgcccacaa cacaaactcc gaca 324

<210> 14683

<211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-F2

 <400> 14683

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 tggcggggcgc cgaggctgcc gtcgccggcc cacgtaagaa gaaaaaaaaat tggcccccat 120
 taccaaacct cgaccgcttc tttaaagaaaa ccagatcaac aaaaaccaag aaaactaact 180
 tcaattgatt ccccttaaag aacaacaaaa cattcaaac cttgttcccg agcttaaaga 240
 ccaagttaat aaaaacaacc ccgttcaaaa acaaacacct gcccgacaac acaaccggtt 300
 caaaggctct ttcctccttg gcccaattgca acggca 336

<210> 14684
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-F3

 <400> 14684

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 tcgggcgngc gggctgagcc aatggcacgg gcccttgggg cgcgaaacgcc ctaacgtggg 120
 tcggggcggg cggcgagcaa aagccccggg tggtagcttg gattctgact taaaagcctt 180
 caatcataat ccggcacaaac ggaacttttg gccaatggct tttcaaccaa gcgccatgac 240
 caattgggtg aattaaccgg tccttttggg ctaaggtgga ttactattgc ggcgccgtca 300
 ttaatagggt gaaactt 317

<210> 14685
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-F4

 <400> 14685

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cgcgcccgtt gccgcacccg gcgccccacc acctacactg cgcggtcccc ctcaggcacc 120
 acgccacctc cgcggtccgcc gtaaccgcgc cgtcgcccac gcctgacgtt caggctcctt 180
 caatcggtccc cctgaacccc ggccttggtg ggccaaggcc aaccgggtcg gccccggccg 240
 gcggggcgctt cttcaagcgg gccggcaccg gataccccgg aacgcttgcc caccctgccc 300
 ttcggtccgg caccctcgc cggggcgagc gccaaagcgc cgcgcttc 348

<210> 14686
 <211> 217
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-F5

<400> 14686

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 gacggcggtg catcagccac tgcggcggtg gcgcccggcg ccgggaggcg gccgttcacc 120
 agcctcagcc aagaggaagc cgacctcgcc ctttgccgc gtcctncagg agcaggagcg 180
 ggcgtacatg atgctgaccg gccgggagta cgcgatc 217

<210> 14687
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-F7

<400> 14687

ctcgccatca cataaaacca gtgcaagcag aatcagcgca atggcgagca gcaccatggc 60
 cctgtgctcc acagccttcg ccggcaaggc agtgaacgtg ccgtcgtctc tcttcggcga 120
 ggcccgcgtg acgatgcgca agacggcggc aaaggcaaag ccggcggtcg gctccggcag 180
 cccgtgggtac ggccccgacc gcgtgctcta cctggggccc ctgtccggcg cgcccccgag 240
 ctacctgacg ggcgagttcc cgggcgacta cggctgggat accgcggggc tgtcggcgga 300
 cccggagacg ttcgccaaga accgggagct 330

<210> 14688

<211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-E12

 <400> 14688

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 actgatgaca gtgaattccg acaccaaggg cctgcaagca atgcagctta tgacagaaaa 120
 ccgggttaga cacataccgg tgatcgacag gacagggata ctctggatag ggtccatcgg 180
 cgacgtcgtg cgcgcggtgg tgggagagca caggaggag ctgaaccggc ttaatgacta 240
 cattcaggga gggttc 256

<210> 14689
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-F9

 <400> 14689

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 tgagcaacct ccggcctaca cggcgtagct ttgcaggaaa tggaatacgg cgccgtcctc 120
 gccgcgccg cgctcgctgc acggccgaac tggctcctcc tctcgccgc gccactggcg 180
 ccgtctattc agattcagaa tcgtctttat tcgatctcgt cattccact aaaggctgga 240
 cctgtaaggg catgcagagc tttagcaagc aactacacgc aaacatctga aacagttgat 300
 ttggactggg agaacctggg ttttgggatt gtgcaaactg attatatgta tattgctaag 360
 tgcgggacag acgggaattt ttctgagggt gaaatggtgc cttttggacc tatagcgctg 420
 agtccatctt ctggagtcct aaattatgga cagg 454

<210> 14690
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-G10

 <400> 14690

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gatactcagg agaggaacaa gctcactggg aacggatata ccagtgaaac gtgagataaa 120
ccgcttggct gctcgaaacg atgaagaatt ccggttggtt gagaagatgg atgaagaaag 180
gaggctaagg gagaactaca aatctagact tatggatgga aatgagggtcc caaattgggt 240
gtttgccaat gataatgaaa ccttacgcaa gaaaaccgtg gcagatgaat tccggaatat 300
aattgttggt tcaaagagac gtagaaagga ggttgcttat tcggactctn ttggtgatca 360
gtggatgaaa tccgacgagg gatttgaaga gattgcaaag atgactccaa gggatgaagcg 420
aactgcttat tcg 433

<210> 14691
<211> 134
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-030-Q1-K1-B6
<400> 14691

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ccgggcaggc tgagccaatg gcacggggccc ttgtggcgcg aacgccctaa cgtgggtcgg 120
agcgggcagc gagc 134

<210> 14692
<211> 109
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-B7
<400> 14692

ggattgagca cgccgcccga tgccaatgga gttacgaggc ggaccgacgc ggcgcgncgc 60
cgggcagccc tagccaatgg cacggggcct aggggcgcga acgccctaa 109

<210> 14693
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C10

<400> 14693

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agatgaccat tacgctggta cagacctggg ccacctgccg caacggtagt cctgccgatc 180
ggttcacgct aagcatgacc atgtgcctcg actacgtaca ctgggatctc acgtacaatg 240
cactgactac catgatggca ccagac 266

<210> 14694

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-030-Q1-K1-C3

<400> 14694

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catcgtcttg acgtctctgt accgctggac tcgccgncgc cccaggctag ctcatgatt 120
gggtgcgcga agccgctcgc ggcgcgctg caggcatggg ctgcgccgcc gtctcccgcc 180
ggtcgccgnc tccccccctc gttctgcgcc cctgacaccc tcccagctct caccggggcc 240
gggtcaaagcc caagccaggt ctaatctgac cagccccgg caacaagctc cgtgaaggc 300
cgcttgttcc tt 312

<210> 14695

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C4

<400> 14695

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atggggtcgg gccggtgctt cttcgagtgc ctgctcaggc tgctcaactt catcctaacc 120
gtcgccggcc tcgctatggg tggttacggg atctacctgc tcgtccagtg gattaagata 180
tcccaggacc gcatcggctg ggcttcgacc gtggaagtgc tcgacttttg ccggccgctg 240

ttgggggc

248

<210> 14696
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C5

<400> 14696

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gtaggcagcc atgaatttcg gtgggaatgg caacgcgacg atccggtgca agtactgcag 120
ggcagagcctg agcgtgatcc ccggcgagcg cgccatccag tgcgcgcaat gcaactgcgt 180
g 181

<210> 14697
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C8

<400> 14697

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agcggatgca gtgatcgctg tacattcaaa gctcaagaag aactctcaga ttcaggctgt 120
gctgaaatct caagatatac cggttttctt cgtaaagaca aactccctgc ctcaaaatac 180
cagggcactc cgggctcttg tccaccatca cattgaccaa attatagaat accatgatta 240
agaagaagcc aggtcattaa aagaaaccca tgcttttgaa gaagcaaggg ttgcaattca 300
accagtagtg attcccaaag gccaaaacct tcaactactt gccaaagcat taagccttat 360
tttgttccaa gtgggtct 378

<210> 14698
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C9

<400> 14698

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 ctgcgagtac gccatcgcgt tccaggagcg cgtcaagatc cccgacgaca agatgggtgta 120
 ctacgaggag cgcgcgggaga tgtacgtcgg cgacgacgtc tctcccgact tctacggctg 180
 ggtgttcccc aagtgcgacc acgtcgccgt cggcaccggc accgtcacgc acaaggccga 240
 catcaagaag tttcaggccg tcacgcgcct acgcgccaa gacaagattg agggcggcaa 300
 gatcatccgc gtcgaggcgc accccatcct cgagca 336

<210> 14699
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-D10

<400> 14699
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 cctgcttttg taataagtta tgcactttga gtatatcagt acttgtaata aatattattc 120
 tttcaaaaca tgtaaaactt gagttttgaa aaggtaaaga atgtttgtaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaatataa aaaattaaaa 270

<210> 14700
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-D2

<400> 14700
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 acggcgccag ctattcatgt tcaaccatct catccaatca tcaaagtaag caatagatgt 120
 ttgtcttcaa cgaaacaata ccctngttgt tttctgggtg acgccatcct tctacacgaa 180
 gtctgaagg aaaatggctt gcattgtcaa attggctcctt aatttaatga ttaaatggaa 240
 ttaaccagcc tttttaacct gccattcaag ggaaaattga attttccatg attcattaac 300

attcctgggtt ctattagatc cagaaacccat tttgtggtaa gtcttacacc agaattgctt 360
gttgacttga gcacaaaacc cattcattta atggctctct ttaa 404

<210> 14701
<211> 114
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-D5

<400> 14701

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tgtgagtgag tgatcgagct agctgagctc cgatcctcgc tagctagcta ggat 114

<210> 14702
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-D7

<400> 14702

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actagatcga tcggttgcca aatggcgggg atgacagtcg gcaataagct ggcgctggct 120
gcggtgctgc tgtccccggc ggcgggccatg gccacggcgc agcaggcctc cggcgtgcgc 180
gcaacttaca actttttacaa c 201

<210> 14703
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-D8

<400> 14703

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tctgtgatgc aattgttcag atctatattg ataatggtgg agacctggaa cttgtcgcca 120
aaagtatcga gtcttcagac ctcaacttct cacgttacgg tgacaccttt tttgaggtgg 180
tttttgttgg agggcgcaact cagccaggca ctgtacaacc tgaagaacga gaccgccacc 240

cttattcgggt gtttagattgt gcgtcacagc gtggaagcat ttttgccttc ggactcaata 300
tccagaaaacc tttgcccagg aggccttttt aattaaggat cctggaaatg gtaatgctta 360
attcctggca ttcttggaag tccttgaagg aaa 393

<210> 14704
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-029-Q1-K1-H7

<400> 14704

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aggctagtag gtggctcctcg aacgaagatg ttggcgggtg tcagcgggca ggtggtggag 120
gtgccggcgg agctggtggc ggcgggcagc cggacgccgt cgcccaagac gaaggcgctcg 180
cagctcgtgg ggcgcttcct ggccgcgtcc gagccggccg tgttcgtgca gctcggcgac 240
cacggccacc tcgcctactg ccacaccaac caggcgctcc tccgaccag gtcgttcgcy 300
gccaaagacg aggtgttctg cctgttcgaa ggggtgctgg acaacctgng tcggctgagc 360
cagcagcacg ggctgtcaag catgggcgcc aacgaggtgc ttctcgt 407

<210> 14705
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-H8

<400> 14705

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cgttcttcag aagtttagag cgtccctatc tccttcctc tgctctgatt tttccagcag 120
ctggtttccc cggatattct tccacgtgc gccgattagc acctggatat gttctccagc 180
gcacagcctt atcctgcagc cgecctcgcc tgattctttg ccagccgccg ctctgggcga 240
ttaaaaaatcc tgctcgccgg ccgatctcc ggcgtcgtct gccctgctt cccttggcgt 300
tcttccccca gtcgtctcct tcctctgctc gtcgctaaaa ttgctggcc gcgaatgccc 360
atggcgcacc ccagtcctt gctgtctctc tgtctctctc ttatccatgg acgcg 415

<210> 14706
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-H9

<400> 14706

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 acctgaccgg cgagttcccc ggcgactacg gctgggacac cgccgggctg tccgcggacc 180
 cggaggcggtt cgcgcggaac agggcgctgg aggtgatcca cgggcggtgg gcgatgctgg 240
 gtgcgctggg ctgcatcacc ccggtagtgc tggagaagtg ggtgctcgtg gacttcaagg 300
 agcccggtgtg gttcaaggcc gtctctcaga tcttctcgga tggcggctctg gactacctgt 360
 gcaaccccaa ccctgtgcac 380

<210> 14707
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-A10

<400> 14707

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 cgccggcgcc aatctccacg acgacgtgcc ggccggccgt cttggcgacg gccgcggccc 180
 agaagaggag cctgctgctg ggcacggcct ccgagacgag gggagtcgag cgggtgaggt 240
 ccagcgggat cgagacgagc acggtgggtc tgggatgtga ggccgtcacc gggcaggtca 300
 cggaggtcaa catggacacc ttctggccca tcgtcgaggc cgtcggcgac aaggctcgctg 360
 ttctcgacat gtacaccgaa tgggtgcgggc cttgc 395

<210> 14708
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-A12

<400> 14708

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gacgccggtc ataacaacaa tactcaagag attcattgct tcagctgcac accatatgga 180
tccttcattc cctgcagctt gtaaaacctt gtttagttta ggaaacactc cattgataaa 240
actagaccga tcctaaaagg aataggtggc tttattatat cagtattaag aagaaaataa 300
gcactcaaTt tcacctctag gacttgaacc taagtgttgt gggcgttcac accctcaacc 360
agctaggctc agcttccttg tctctttcgt gggctctatg 400

<210> 14709

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-A3

<400> 14709

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accaggccct gaggaagcaa ggactagtgg ttggatcatca atggatcggc gtcgtgcccc 120
actaccaatt acaagtgtgg ggacattatc taagcagaaa gcaccggtag ggaatgatgc 180
tattgtttct agagacgctg tgatatctgg accaaatttc ttgggaaggt caagtggatc 240
ttcaaggaag cctggtatct cgagtagccg cgatgccgtg gtcaccgata gttccgagcc 300
ttcacgagcg cgcacaactg atgcaagccc tgggggtgttc cgcagagcct caagtcctca 360
gagaagctca cctgtccact ctgcagaaca gaagcgctca ttctcaagcc gtcatccatc 420
taatgcgaag aactacgat 439

<210> 14710

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-030-Q1-K1-A5

<400> 14710

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ccgtgcggga tctgcgggca ctaccacaag tacgaggagg gggaggtatg cggngtgtgc 180

ggccaccgct ggaaaccgtc ggacggggag ggcgccccgt cgaggcacga gtccgncttc 240

cccacagaag tgctcaagga cttcctc 267

<210> 14711

<211> 301

<212> DNA

<213> Zea mays

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<400> 14711

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gctggccacc tgccaccaga gacgctgctg cgggccgagt ccacaccaca gccggcatgg 120

aggctgcggc ggcggcgccg catctactgc actgcccggg cttcggccgc gtagcgcaac 180

ctccaacgct tcaacggcca gggcaggtcc cagccttcg ggccggcggc accgaaccca 240

agctggccaa cttcaacttc ttctttcttc gggggaagga ccagaacccg aatggacttt 300

t 301

<210> 14712

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-A8

<400> 14712

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gtacgagcgc gctcggagcc aagatcccca agggttgtct cctcgtcggc ccgcctggga 120

ccgggaagac cctccttgcg cctgccgtcg cttgggaagc ccgggtgccc ttctttctct 180

gggctgcctc ttaattccgc gagctcttcg tcgggtgcgg tgccttcagg gtgcgcgacc 240

tttttgagaa ggccaaggcc aaggcgccct gcattggctt cattgatgag attgatgccg 300

ttggaaggca actcggtgcc ggacttggtg ggg

333

<210> 14713

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B1

<400> 14713

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tctcgctcgc gtcggccgcc gcggttgccg ccgccgtcga cgcggaggac ccgctgatcc 120

ggcaggtggt tcccgggtga gatgacaacg atctggagct gaacgcggag tcccacttcc 180

tgagcttcgt gcagcgggtc ggcaagtcct acaaggacgc cgacgagcac gcgtaccggc 240

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<210> 14714

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B10

<400> 14714

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agcgagcagc ggcggacatg agcggcgggc gcgaggagag caccagcagc aggtggccag 120

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cg 182

<210> 14715

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B2

<400> 14715

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 tggacctcat caaccaggat accaggccta tggattaatg agaacctttc caaccgaatt 240
 caatttgacc taatggaaac caccagaaaa cctatgcctt tgggaatcct gaaccctgct 300
 gaacttaatc caccggtttg aaaagagcct ttaatgggga cccttttgaa cttaaaacca 360
 cccctgaaa taatttgtc 379

<210> 14716
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B4

<400> 14716

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 aagctcctca agatctgtgt agtcaatacc catcagcttc aagaaaagcc aaatgccata 180
 ctctggtatc ctctctctat gccttaaate taatcaccaa aaccttaacc agaaaccagt 240
 tcagaaccct tcccgctcctt ttaaaccctta ttaaaccctg ttgaatttgt ccaaaaggat 300
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 ccaa 364

<210> 14717
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-029-Q1-K1-G10

<400> 14717

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 ccccgctccg catcccgccg gagaaacagt cgggctctta cggccttcga gcttgacgag 180
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ctcatcctgt cctccgtccg ccctgcaaac cctagccctg ttccacgcct acgccgtccg 300
 ccggagggca tcttgagcgc ccttcccagag cgccgtcgct cgccgnetca gtectcttca 360
 tccacgtcct cgcccccc 378

<210> 14718
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-029-Q1-K1-G11
 <400> 14718

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 cgcgggggccc gccgcagccg cggcgggatcc gcccctggcg gcgggaccgg cggggtcggg 180
 ccgaccaggc gcccctttta aagggctggg aacaggcagg cgccctacca gccgccgaag 240
 gcccccgacg ctgcgtggca gcacgacatg taccctgcgg tcgccgcagg aggcggcggc 300
 ggcgggaggg tctcggtctt cgagacgggc gccaaagtct acatctccaa cctggacttt 360
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 tcg 423

<210> 14719
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-029-Q1-K1-G12
 <400> 14719

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 gttacttggg gacttcaacg atgcattgaa tgattttgag aagatgatta ccattgacaa 180
 atcatcagaa caggacgcta catccggact ccctaaactt aagcagaaag aacacgaagc 240
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 cgaagttggg gtagaat 317

Sequence

<210> 14720
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-G4

<400> 14720

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ttttctatcg cctgcttggt cctctgcacg ccatggctcg gggcaagaat tcggacaaga 120
cccgattgcc gtagtatgtc ctgcaaacaat tcggcttcaa tgtcccgtcc tgctgtccct 180
atccgtccgc agaagtcttt caatcgccag acatatgtgc atagaataga cctaagatca 240
agcctattcg acatggtgat tcacgaccgc tctgatcaac ttccgttatg gcgcccattc 300
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<210> 14721
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-029-Q1-K1-G7

<400> 14721

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ccgcccagct cctccttcgc ccatggccgc ggttctccaa gttccctgc gcgagagctc 120
tacgcgcgcg aatccgtcgt cgcgtcttgt tctctggcgg tcgagctcgc ccagctctgt 180
tgccatgtcc ctgttcctcg gttcgcggcg cccatgtcaa agtcctcctgc gtcgcccatt 240
gtcgtgcgcc cgagctcccc tgccgtgctc ctactgcttc ctatgcgcgt agccgtgtct 300
actccttcct cgccgtagtc cctgcgcgcg tcgagcttcc gtgtcgagct gttgaacatg 360
tctnccttg cttgtgactn tgcgtcgcgt agaaccctga ctagattcgt gtcattcgca 420
gctcgtc 427

<210> 14722
<211> 345
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-G8

<400> 14722

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cctgatgcag ccggccaaga tcggcgcccg ggcgcccttt gcctcgctgc cgtcccgccc 120

gtcgtcgcaa ctgcctgca gggcggttcg cgtctacgcc ggcgcggtca ggatcacgtg 180

ctccctgcag gacgtcgcca gcaggtgctg cgacaccgag aagctcgccg gcttcgctgt 240

cgccacctcg gcgtctctcg tctcggggcg gagcgccgat ggcacgcca agaggctgac 300

ctacgacgag atccagagca aaacgtacat ggaggtgaaa ggcac 345

<210> 14723

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-G9

<400> 14723

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accgtgggca agcccaaggt ggcgggctcc ggcagccctt ggtacggctc cgaccgctc 120

aagtacctcg gccccttctc cggcgagccc ccgagctacc tcaccggcga gttccccggc 180

gactacggct gggacaccgc cgggctgtcc gccgaccccg agaccttcgc caagaaccgc 240

gagctggagg tgatccactc ccgctgggce atgctcggcg cgctcggctg cgtcttcccc 300

gagctgctct tccgcaacgg cgtcaagtcc ggcgaggccg tctggttcaa ggccggctcc 360

cagatcttca gcgagggcgg gctgga 386

<210> 14724

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-H1

<400> 14724

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tctgacccgc acaactgaac ccgcatgggc gcgcgcctc ctctcgccc tctcgcccgc 120
 gtcgtcctg ctcccgtcg ccgcgcgga ctctctctg tccccgccg acaccaccgc 180
 gtacgacgag ctccgcctcc ggggcttccc gcgcggcctg ctcccgcca acgtgcgggc 240
 ctacacgctc gactecgggt ccggggactt cgccgtcgac ctccgctcca gctgccggat 300
 cgtgctgccc gcggggagct acctcgccgc cttcagcgac cgcctcacgg gccgtctcga 360
 cgaccgtcgc atctcgggcc tcgactgcat ccgcgtcagg gccctcttcc gctggtggtc 420
 catcacg 427

<210> 14725
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-H12

<400> 14725

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 caagcttcag aacatgttca agaatacatt tcagtctggg ttcctgtcca ttctttatag 180
 cctcgggacc aagccattgc agatatggga taaggaagtt gtgaatgggc acattaaacg 240
 accccaagat gaagatatcc aatctaattg acttgaaatt gttggaacaa atgtacagtc 300
 aacttacatc acatgcccag ctgatacttc tgctactctt gggattaagc ttgcatttct 360
 ggctattatt gcgaaaaatc ttaagaaata cttcacgttt gagatccaag ttctggatga 420
 caagaatg 428

<210> 14726
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-H2

<400> 14726

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gccgtctcct cgtcgccctc ctgcgccgct cgctcctgct cccgctcgcc cgcgcggact 180
 cctcctcgtc cccgccccgac accaccgctg acgacgagct ccgcctccgg ggcttcccgc 240
 gcggcctgct cccggccaac gtgcgggect acacgctcga ctccggctcc ggggacttcg 300
 ccgtcgacct ccgctccagc tgccggatcg tgctgccgcg ggggagctac ctgcgcgtct 360
 tcagcgaccg tctcac 376

<210> 14727
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E3

<400> 14727

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 ttctcgggga cctaccgggc aactatcagc tcaacaatag cgccgcaaaa ccaccggctc 120
 aacatcatgc caacagtaac cacactcgcc gtcataaagg cgctgctcgt cagcaccacc 180
 cgcgccacg cgctgttgaa gaagaagtcc gacgcgctca cggtaacaact ccgtgccatc 240
 ctcaagaaga tcgcagccgc caaagagtcc atgacccaga caacgcgcgc ctctacttc 300
 tcc 303

<210> 14728
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E5

<400> 14728

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 gagaagggca gatggatctg gtgagcccg ggatagcatg gaggtggacg agcagaaggc 120
 aaaagaagtt gggatagagt tgcctcacgc aactgatgtg ctgcacaaaa acgggtcaga 180
 tggactagaa atgaacgatg tttctggatt gcgcactggt ggaatcctga atacatcttc 240
 tgcgaaggaa agtgacgttc atagtttatc caataagatg aaacatccta atatttccag 300
 agagcagcaa acaaggacaa gtaacagtaa tgctgtcac catgcaacaa atagtattac 360

tgatcaaacc acagcttttgc cagatgctac aattcgcatc atcaagaacc agcttacgac 420
ag 422

<210> 14729
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E6

<400> 14729

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tcagcacctt ccagagctgc cccattgccca gaagagcaaa gatcaacacc aggtccaggg 120
gcagcatcag tagcgtggcg aaggggtcac caccaccagc cttccatttc cagtgcattg 180
cgtcgacttt cgcgggcgac accagcctac ggctcgagct ggactagaac cccgaggcga 240
tcatctcggg ggcgttgccc gggaactgct ccctcctcag ctacaacgac ctccgcgcct 300
acctcgagtc gcacgagacg gcgggcccatg cagacagtca tcggtcgtg gcgctcctga 360
tcgagaccat gttcacaccc gttctggtgg ccacagca 398

<210> 14730
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-029-Q1-K1-E7

<400> 14730

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tgttcctgtg ccgtgccggc ttggaaaata ggaggagaa gatcaacgcc gccgcggtgc 120
ggcctgtgga gtattaaaca aagatgcgca gagccgcaga gcccggcgcc ggcagctagc 180
agccaacgcg aaacaaacca tcgtcaccca atagccaccg gccaaactgtc aagcactcct 240
tcggtgcttc cccatctgcg ccgcgccccg aacccttcgg accccgcgag cgaggccgtc 300
gccggcgcg gcgagatttg agctgaggcc atggagtcac cgttccgggc cgacgtggtc 360
aaggacaagg cggcgctggt caccggcggn ggatccggca tctgctttga gatc 414

<210> 14731
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E9

<400> 14731

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ctacaagtcc gacgaggccg tggccgccga ccccgagctg agggcgttct gggacgaggt 120
gcgcaacgtg gggcacggcg acaagaagga cgagccgtgg tggcccgtgc tggacacccg 180
cgacagcctg gtggagacgc tgaccaccat catgtgggtc acctccggcc accactcggc 240
cgtcaacttc ggccagtacc acttcgccgg ctacttcccc aaccggccga ccaccatccg 300
gaagaacatg ccggtggagg agggcgggcc gggcgaggag atggagaagt tcctcaagca 360
gccggagacg acgctgctgg acatg. 385

<210> 14732
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-029-Q1-K1-F1

<400> 14732

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gtgcttctag agatgcttac agggagaagg ccaactgac atgtgtttgt ggacgaacta 120
aacattgtca aattcgtgga gaggagcttc cctaataaaa tattggatgt gattgatggt 180
tccttatgtg atgacttcaa gagtgcccaa ataaacatgg taacagagcg tgagacctac 240
cgatgcttgt tttctctact gcaagtagca ctttcttgca cacgtgagat tcctggtgaa 300
cgaacgacca tggaagaagc agctagcaga attgggtcaa tccagaccac atatgctaga 360
ggaattgaaa acgcaagcag gcattgaatn gaaaccatct ctatgttgag cgaacatacg 420
tggggatgga ca 432

<210> 14733
<211> 349
<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-029-Q1-K1-F10

<400> 14733

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tggacaaggg ccgtcggccg gtggaaactg aaccagccc cgacgcacct gccggcggcg 120

cctgggctgc tccagtctgt ggaaaggcga cgaaccaact cgggggaatt ctagtcttga 180

ggccgcccnc tncgccttca gccctccacc gacttaactg tctggaactg gaagtgtacc 240

actactattc aattggccct agccctcgca tagcacgatg ccgtcggcgc cggttgagtt 300

cgcgatcctc gccgctgcct gcaggttcaa caagcccctt accgttctc 349

<210> 14734
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F12

<400> 14734

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tgtaaccggc ccataccgca tcgactacat ggccaccaac aaacttgtac aagcttcgac 120

tgctgccaag caagtggagc acttcatact ggttacatcc ctgaggacca acaagatcgg 180

cttccctgca ttctcttga acttgttctg gggagttctg ctctggaaaa gacgagctga 240

ataagcactc atcgcaag 258

<210> 14735
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-029-Q1-K1-F5

<400> 14735

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aagangccgg cggcgccagg gccnccggcc cggaccgcgc accagaccgc gcggccgcac 120

cgcaagaagg gcgacagccc gcacaccacg aaccnngcgca ccnacaagaa cggcgactac 180
gtcgcagtcg aggtgaacgg cgccgtgcac aagggcatgc cgcacaagtt ctaccacggc 240
cgctaccgtc gcgtctggaa cgtcaccaag cgctccatct gcgttgagat caacaagcat 300
gttaatggcc gcatcatcag gaagcgtatc catgtccgtg tggagcatgt gcaacccttc 360
ccttgacatc gagagttccg tttgatgaaa gccagaacg atcagttcaa ggttgatgc 419

<210> 14736

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F6

<400> 14736

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cgccgccccg ccgtgttgct cgccgacacc gccccgccg cagccaaaat gccgttcaag 120
aggttcgtgg agatcggggc agtggccctt gtaactacg gcaaggagta tggccgcctc 180
gtcgtcatcg tcgacgtcgt cgaccagaac agggctcttg ttgatgcccc cgacatgggt 240
cgttgccaaa tgaacttcaa gcggctttcc ctgactgaca tcaagattga cattaacgt 300
gtcccaaaga agactacact gatcaaggca atggaggaag ctgatgtgaa aagcaagtgg 360
gagaatagct catggggcaa gaagctgatt 390

<210> 14737

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F7

<400> 14737

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ctgatcgatg gcggcccagg ctctcctctc cggccggcag ctgctgggct gcccgtgca 120
gtcggccgtc tctaggtcgt cgccgaggaa ggccgcttc gtcgtcagg ccagctccag 180
ccctccagcc aaggtctgtg cgccgtacct tactatagct agtaatccgt ccgtcgtcaa 240
tctcaacgat ggcaagctcg ttcgttcttg agaggactac gtactgctga gtgctgactc 300

gattgttttc gtttcgcagc aaggtgccga caggcagctg tggttcgcgt ccaagcagtc 360
cctctcctac ctcgatggca cgtacgtacc tgcgctcggt gcccgccccg cgcgca 416

<210> 14738
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E12

<400> 14738

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gggccagcgc ccactaccgg ggccatgacc cgtggcggtg gcgccagcag caggctgcgc 120
gcgcaggcca cctacaacgt gaagctcatc acgccggagg gggaggtgga gctgcaggtg 180
cccgacgacg tctacatcct ggactacgcc gaggaggaag gcatcgacct gccctactcc 240
tgccgcgcgg ggtcctgctc ctctgcgcc ggcaaggctg tctccggctc cctcgaccag 300
tccgaccaga gtttcctcga cgacagccag gtcgccgacg gctgggtgct cacctgcgtt 360
gcgtacccca ctttcgacgt cgtcatcgaa acgcaca 397

<210> 14739
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C5

<400> 14739

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gcgagggcgg gcgggacgga gggcgccgag gaggaggcgg cggcgaggga gctagggtta 120
gggttcgccg ccgccgtctg agctgcggcg tcgaggttgc tggggtcgga accggtagca 180
gctgcggcgg aattcgcgga gaccgccgac gtgccggcct tggcgaggac ctggcggtgc 240
tcttcgcggc gcttctggag ctgcttctgc tccagctc 278

<210> 14740
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C6

<400> 14740

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cagcgccgcc gccatcgtcg gccacgacgg cagcgtctgg gcacagtccg agaacttccc 180
cgagttaaag cctgaggagg ttgctgggat gataaaggac tttgatgaac ctggaactct 240
tgcaccaact ggtctttttg ttggaggtag gaagtacatg gtgatccaag gtgaacctgg 300
agttgtcatc cgaggaaaga agggcactgg aggcattact atcaagaaaa ctggcatgtc 360
cttgattatc ggtatctatg atgagccaat gactccaggg caatgcaata tgggtggtga 420
gaggctc 427

<210> 14741

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C8

<400> 14741

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gctgtaccgg acgacagggg ttggtaggtc gtaggtgtag ctagctcggc tagcgagcaa 120
tccggccaac agcacacgcg tcgatcgcca tgccgagcgg ctgctggcaat ggcgttgga 180
gtagtcgcag tagagtgatg cccaacctgc cggccggatt gcgcttacac cagactgacg 240
aggagctcat ggtgcactac ctcatgagga aagccgactt cttgccgtgc ccagtcctca 300
tcacgcccga ggtcaacatc taccattgca acccctgaga tctccctgcc aaggcattga 360
tcggcgacaa ggagtgggta ttcttc 386

<210> 14742

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C9

<400> 14742

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taccagatta tctgtagtcc ctatccacgc atcacgctct caggccctaa ggtacctgtg 120
tatacgattg gggatagaag tgccaaatgt tgcagtcctc gtgggtgaaa gcggcgattc 180
agattacgag gaactgctgg ggggtctcca taggaccgtt atcctaaagg gcgagttcaa 240
catcgccgca aacaggatcc acacggtgag gagatacccc ctgcaggatg tcgtcgccct 300
cgatagctca aacatcatcg gtgtcgacgg ctacaccacg gatgatctga ggtctgcctt 360
gcagcagatg ggtatactgg cacggtaaca c 391

<210> 14743

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-D1

<400> 14743

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gagccagaaa cttttgtcca tcgttctgga cgcactggac gtgctgggaa agcaggaact 120
gcaatcttga tttaccagca gccaaaaaag gacagttaag tcacttgagc gtgatgttgg 180
ttgcaagttt gagtttataa gccctgcgtc catagaagaa gtgctggagt catctgctga 240
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agctgagaaa ataacagatg aactaggacc ttatgccctt gcttctgcac ttgcacatat 360
gaattgattt tgtcagacac cttattcacg ttctttgatc agttatgagc agggatgggt 420
gacattg 427

<210> 14744

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-D4

<400> 14744

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gaaaaggaac cggccggaga agcccgcccc ggcgcctact ccagggttgc cgctgccgcc 120

gctgccggac ggtagcgatt ggtggggcgt cttctaccga agggttgcag gacattcccc 180
 tttccaaga gaacaccaga acatggagtc tgctctgaag atgtcaagaa gaaccttcga 240
 ctacatctgc tcaattgtta agaaggacct gacaacaaag acatacggtt tcagaaactt 300
 caggtttggt gacaagaaag tccttggggg ggaggatcag gtggcggtgg ctctgatgag 360
 gctgactact ggtgagtcgc tgcagaacat aagaatgtgg gttggcatga a 411

<210> 14745
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-D6

<400> 14745

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 gagggggctg ccgctgtttg tctctccact ccacccacca gcagttacct cgggagggca 180
 tggcaaaaatc tgggtgcctcc tttccggagt ccagttggat ggagagggat ttcctggccg 240
 cgatcggcaa ggagcagcag caccgcaca aggaggaggc aggcgcggag gaatctgctt 300
 acttcggcgg agcatgagca gcagcagcag ccccggaat ggactgggtcc ttcgctagca 360
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<210> 14746
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-D8

<400> 14746

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 ggaaaaatcgt tcttttgatg cttctcgtaa tgcactctgag gctgtaacaa agcctctaata 180
 aaatcccttg actgctgcgg caaatgcagc tgcagcaagc agttcaggag ctggtgctcc 240
 gtcagctgta actgcaatga atggggatac cagaagtttg gttgatgtaa aacctagaat 300

agctgatgag tcaactggaca agtcaaaggc gtggaagctt atggagataa ctgagtcaac 360
 tcagtgcaga tcaattaaac tggcagacaa catgagaacg aacaagatct cgagattgat 420
 ttacacaa 428

<210> 14747

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-D9

<400> 14747

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 ttgccgcacc agatgggcta ctccatctac gggctatggg cgcccaactc ggtgtctact 180
 ctgtactacg ctggcttccg ttcactgagc ctgctcaagg gcaccctat gttccgtgag 240
 ctcacgattc cgtggatcga gcctttatac tacgtcgcgg tcgcctagaa cgtctacagt 300
 gcgtgggaag cgctgtggcg cggagacacg ctgagagggg agtggaacgg ccagatgatg 360
 tggctgggtcc tgaaaacgac ctggtaactt tacgggttc 399

<210> 14748

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E11

<400> 14748

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 tggagaaaag gttggagttg tgggaaggac tggcagtgga aagtcgactt tgggtcgaggc 180
 tttatttcagg atcgtggagc ctgcagatgg ccatatcatc atcgatgggtg tcaacatctg 240
 cactctggggg cttcgtgatc tgaggtctcg cttcgggtgtg attccccaag aacctgtgct 300
 cttcgaagga actgtacgga gcaacataga cccagcacgg cggatttccg aggctgagat 360
 atggcaagcc ctcgagtgtc gccagctaaa ggatatagta 400

<210> 14749
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A7

<400> 14749

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agtgtcgctg ctcggttaca gaaacacagc aagacgcttg gaggttttcgg tgcgtggaat 120
agatgtctga accatctgct tacgcttgcg gaatcacaca tcgagtcctg catacttgca 180
aagttcattg aatcggtgaa aagctgcctt gacgaaaaat cacgggaagt attgaagctg 240
gtatgcgacc tttatgctg cgacaggatt tggcaagata tctgaacgta tcggaatgta 300
tactacgttg ccccaaacia agctaaggct attcataagc tgacagacta cctgagttac 360
caagtgaagc ttgtggcgcg agaactcgtc tacgcatttg accttgcaga tcttatcatc 420
cgtgccccca 429

<210> 14750
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B10

<400> 14750

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gcctaagggtt atttgggtccc ttgctgatgt acaggcaaca tgtggtacac ttgctttatc 120
tacggcaaca gtgaaattga tagcaccaga tggagaggag aaaatagcat gttcagtcgg 180
aacagggtcca gtcgatgcag cttacaaggc tggtgacaaa ataatccaga ttccaacggg 240
tctccgagaa tacagtatga catcagtcac agaaggcatt gacgcaatcg cgacaactcg 300
ggttgttgtc actggagatg tgagcaacia cgccaaacat gccctgactg gccagtcttt 360
caaccgctcc ttcagcggga gcggtgcac catggacatt gtggtg 406

<210> 14751
<211> 405
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B11

<400> 14751

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gcatcatcgt tccgcccccc tgagtgttca gtaacttctt ccgatccata ttatggcttc 120

aaagcagcag cagaaacagt tcctggatga agccatgatc aagcagccga caccggagga 180

ggaccgtgag ggcgcagggc cctcagtgtc gacgatcatc ggctttggat tcctaacctt 240

caactcattc atggctgtgt acaggtcaaa tggagatgtt ggatctatct cctttgtggt 300

cttctcttac ctggctctcg ttctgctgtt ctactgcctg cgccgattcg agacaactcc 360

accagagtcg cctagccggg agcacataaa aatggccgtg tgggt 405

<210> 14752

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B2

<400> 14752

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cgaggagcag gaagacaagg gatctggagc cggagccccg atggcggtga cggaacctc 180

ggtggcagcg gcggcgacga tgctggcggc ggcggcagcc atcttcatca ccttcgtgat 240

ctgcttctac ctcttctgt ggcgaagcg gtaccgcggg gccgtcccga ccatcggcgg 300

cgacagggcc cggccccgt tcgtgttcgc gggcggcgcg gggtgccacg gcgggctgga 360

cgaggccgtc atcgcggcgc tgccgaagg 389

<210> 14753

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B3

<400> 14753

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 tgggtcatct ctgaggctct caaaccaa at ttggagtgt ctggatttct tgacgtgtca 120
 cacatacata tgctccgcgt tgaaaatttc ttggccaatg ccgaaaaatc tcaaggtaga 180
 tacccttctt ttgattacat tagtgtaaca ccaccatattc ttggaggtaa ctatagcacg 240
 ctactcggcc aacttgcaag gtcaccattg gttggaaaag actgcttcat cctagtcgag 300
 taccgctga aaacagacat ggctgaatcc tgcggaaacc ttgtaaagg agctgacaag 360
 aggtttggta ggaccaactt gctgatatat gggccaactt ggtcaga 407

<210> 14754
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-029-Q1-K1-B4
 <400> 14754

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 ctaggccgc gtgactatgc gcaagacggc tgctaaggca aagccggcgg cgagctccgg 120
 cagcccgtgg tacgggccc accgcgtgct ctacctgggc ccgctgtccg gcgcgctctc 180
 gagctacctg acggtcgagt tcccgggcca ctacggctgg gacaccgcgg ngctgtcggc 240
 ggaccgggag acgttcgcca agaaccggga gctggaggtc atccactccc gctgggcat 300
 gctgggcgcg ttgggctgcg tgttcccga gctgctgcc cgcaacggcg tcaagtccg 360
 cgaggccg 368

<210> 14755
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-029-Q1-K1-B6
 <400> 14755

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 ggggtccctt ctcttgggtt gcgttgccc tccctcctgt ctgcgtgcgt gcaatcgacg 120

cataggcgcg ggcgctcgca ccaccacgac cagcaccga tggctttcat gcgctcccgc 180
tcaaatgcat cttctggcat gggagttgct cctaacatta gggagacatt cgtcgagctt 240
caaatgaaga aggcattccg atatgttata ttcaaaatcg aagagaagca aaagcagggtg 300
gttgtggaga agacaggggc tactactgaa agctatgatg actttttggc ctctctccca 360
gagaatgact gccgatatgc gctgtatgat tttgattntg ttactgggga gaat 414

<210> 14756
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B8

<400> 14756

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tccaccaccg ccgtcgcggc gctccccagg aatgggcagc agcgggcgtc gtcgtcggtg 120
ttctcctcct cctcctcttc ctcttctctc gtcggcaaga cgctgctgag gcaggccgag 180
gcagcccggc cgtcgttcgc cgtgcgcgcc gcggcggatt ccgacaggcc gatctgggtc 240
cccggcagca cccctccgcc gtggctcgac ggcagccttc ccggcgactt cggctttgat 300
ccctgggggc tcggatctga cccggagagc ctgcgggtga acgtgcaggc tgagctggtg 360
cactgccggt gggcgatgct cggcgcgggc ggtatcttca tcccggagtt cctgaccaag 420
atcggc 426

<210> 14757
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C1

<400> 14757

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gcgaaagcat accagagcac caagcatagg ggcgcgcgcg cttctccagt tctccctccc 120
tgccctgcaa ggcggctgca actgttccag ctagccctc tcccagcctc tgggtcgtag 180
acgtagtagt agcagccgca gcagcagaag cggccgcgag catgctcttg gcacccctcc 240

ccggctcctg gcggatctgc cggaaggcgg cggccggagc gcttggagcg cggcgctaac 300
cgcgttcgac ggacctcggg atctgacgcc gggcctcccc taatcggtcg acttcat 357

<210> 14758
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C11

<400> 14758

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taggtttagt atattgttaa gtttgtaatt ctaggtctg gaggaagca tagatctcaa 120
gaggggtgaa atttggtggt aatgtcctga gaatttcaag aagacaaggg cgcgaggtt 180
gtttctggag ggatctgtga gcaaagcagc agaaatttga ggttgggtgt aacctgtgga 240
tcaagcatgg tgggtaagga gctgggtgtg caaaggaatg gccctgttga catacgtgag 300
attgctgcaa aggccacgct tcgggaggtg cggcagagcg ggcacaccta cgtagaacta 360
cggcgtgtcg ggaagcgtgt catcttcttc 390

<210> 14759
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C2

<400> 14759

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cacactacgc ttcgtatccg aggtgattgg catcatagct cgccattgca aagaatatgg 120
ccgacaacat gaccacacac agcttcagtt ctctctgaat gacctgcccg gaaacgactt 180
caacaatctc ttccagctga tccagcagtt caataagtcg acggcaataa accacaagag 240
tgaggcagct gaggcactac ctctccgtg ctatatctct gggttgcctg gctcctacta 300
cactaggatc ttccctagcg aaagtgttca ccttttccat tctttgttct gccttcagtg 360
gcgctctgag gcaccagagg gcatcaaata aacatgccta gatattctaca tcacaaagac 420
tatgtcaccg tcgatgg 437

<210> 14760
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-029-Q1-K1-A6

 <400> 14760

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 ttccgtagct cgacggggac ggcgagccgc tcctgctgct gccgcccgcg gaggaggagg 120
 aacaggatta gcgggaggag gagcagggca ccggtcgctt ggggctgtgc cacatgccgc 180
 tctgggggac cgccgcgtcc ggcgagccgc cagccgaggg cgacgccgc cgcgcgccct 240
 cagggtccgc cggcggcggc gtcaaggtga tccggtcgct gctccccacc cggcgccgc 300
 tccgcctcga cccgcccgtc aagctttatt ttccatatga acccggttaag caagtccgga 360
 gcgctgtcag gatcaagaac atcagcaagt ctcatgtggc tttcaagttc caaacgacag 420
 caccaaagag 430

<210> 14761
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-H1

 <400> 14761

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 gccgacgcga cacctcgtcg gaatccggtc gcgcgacctc cccttctcgc cggccggagc 120
 ggggtgcgcca tcaccatgga cccggaagcg gtacggaaaa gcctggagcc caccgcaact 180
 gtcgaaaaaa tcaccggctc caccctcgcg cggctccact tctacgacct cttcgtcctc 240
 agcggagtta ggaatcaaac ccgccgagca cgg 273

<210> 14762
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-028-Q1-K1-H10

<400> 14762

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 ggcaggtggt tcccgggtgga gatgacaacg atctggagct gaacgcggag tcccacttcc 180
 tgagcttcgt gcagcgggtc ggcaagtcct acaaggacgc cgacgagcac gcgtaccggc 240
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 cggagcacgg cgtcactaag ttctccgacc tcacgccggc agagtccgc cggacctacc 360
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 cgc 423

<210> 14763
 <211> 95
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H11

<400> 14763

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 tactgtgcta taaccaccac cactcctaaa accat 95

<210> 14764
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H12

<400> 14764

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 gcgatacctt gaggatgtta ttgctcacia gcaggcaatt cccttcgga gatactgtgg 180
 aggtgttggt cgcaccgcac aagcaaagtc tcgccactcc aatgggcagg gtcgctggcc 240
 tgtaagtca gccaggttca tattggattt gctgaagaat gctgagagta acgctgatgt 300
 gaaaggcttg gacgtggaca acctctatgt ttcacacatc caggtgaacc aagcccagaa 360

gcagaggcgc cgcacctacc gtgctcacgg acgcattaac ccttacatg

409

<210> 14765

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H2

<400> 14765

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gtccttttct gaatccggtc ggcgcacctc cctttctcgc ctgccgtagc gtgtgctcca 120

tcaccatgga cccggaagcg gtacggaaaa gcctgtagcc caccgcaact gtcgaaaaaa 180

tcaccggctc caccctgtct cggtccact tctacgacct cttcgtctct agcggaatca 240

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<210> 14766

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H3

<400> 14766

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<210> 14767

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H6

<400> 14767

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ccttgaggtc cctggccatg ctcgtcacca acgccgccgt cgctgcagac tatgcgtcac 120

cgtcctgccc caggetcacc cttcacaacc tctgtcctta cccggtctgg ccgctcgtca 180

ccgctaacgc cgggtacccc tccatcgccg gcactgactc ccggctcaac gggaacggct 240

agggcctggg taccatggcg ctgcctcaag g 271

CCGTTGCTGCT

<210> 14768
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H7

<400> 14768

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cgccgcgcgc gctcacagag cgggacatct ggcagcagaa aaagaagctc aagagggggc 180
gcggcggcgc gaggcgctcg ttcgcggcgc aggacgatga ggacttcgag gccgactttg 240
aggtcttcga ggccgactcc agtgattcag atttggagct cagggagggg actgacgacg 300
acgtcgtcga gatcaagccc ttcactgcc aagaggacttt ctccagcgat ggcttaagca 360
ccatgactag tgctgtagca aggtcagcca agaggaagag aaagaatcta 410

<210> 14769
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H9

<400> 14769

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tgaactgagg atggccttta gggaggagga gtctttgaaa gaggcagagg agggggaagg 180
tgattggaat gaagttgatg tggggtttga ttttaagcct acacaggagt cagatgatga 240
gagtgcat ttcagatgctg cagaagagtt agctgaagaa tttgaggaag gtttgagggt 300
gcatgataaa gagaacggtg ataaggattt cgatagtgc gagcaggagg ttgggtcata 360
tgatgaggca agtgatttgg aggcaatgct 390

<210> 14770
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A11

<400> 14770

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agaagcacca gtgcctgata gatggcgcc caggctctcc tctccggccg gcagctgctg 180
ggccgccccg tgcagtcggc cgtctctagg tcgtcgga ggaaggcgcc cttcgtcgtc 240
agggccagct ccagccctcc agccaagcaa ggtgccgaca ggcagctgtg gttcgcgtcc 300
aagcagtcct tctcctacct cgatggcacg ctgccggcg actatggctt cgacccgctg 360
ggcctctcgg acccgaggag caccgggggc ttcacgagc ccaatggctg gcctat 416

<210> 14771

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A12

<400> 14771

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ccctcaagta cttggagttg gcaatggaga caatcacatg agaatcatcc aggaggacat 120
catcgagaca gtcaacaacc atcccagtgc tgggtggaca gcctcacgta atccttactt 180
ttcaaactat accattgcgc aatttaagca cataacttga gtgaaaccag caccacagaa 240
tgcactaagc aatgttctctg tcaaaactta ttcaagatca ctggaacttc caaaagagtt 300
tgacgctaga tctgcatggc cccgttgc 328

<210> 14772

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-029-Q1-K1-A2

<400> 14772

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tggcttcctc tctcgcgctc cccccaccaa accctaacc gagcaccag cccctcctcg 120
 cgtctgctcg cgccggcctt tggggctctc actctgagcg gcagggaccc gcagggctcc 180
 ggttggtgctc aggaacatc ccagttgttg gcgagagacc aagaaatggc ggagaaggag 240
 ggagcgaagg ttggagcgga agagatggaa gagcgggagc aggaagggga ggcagaggag 300
 gtggaagtga agtttctgtc cttcgatggc tctgacatcg gtcccgtgcg ctgcaacgcc 360
 gtcgncacta ccgtagccgt cctcaaggat cgcgctcgctc 400

<210> 14773

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A4

<400> 14773

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 aagccgcggc caccctgatg cagccggcca agatcggcgg ccgggcgccc tttgcctcgc 120
 tgccgtcccg ccgctcgtcg caactcgcct gcaggcggtt cggcgtcgac gccggcgccg 180
 ccaggatcac gtgctccctg caggacgtcg ccagcaggtg cgtcgcgccc gcgaagctcg 240
 ccggcttcgc gctcgccacc tcggcgctcc tcgtctcggg cgcgagcgcg gagggcacgc 300
 ccaagaggct gacctacgac gagatccaga gcaaacgta catggagggtg aagggcacgg 360
 gcacggcgaa ccagtgcgac accatcgacg gcggcgtgga gtcgttcccg ttc 413

<210> 14774

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A5

<400> 14774

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 cagaaatcat atggaagaac catagcattt cgcgattcat tggtaaattt actttgattc 180
 tctatagacc aataatgtga gaccattaac acgggttaaag ctaaaactgct tgaagtccgg 240

gcaaaaagggtgtactcttttc tacaactaca ttagtattag tctcgaaatg ctttaaacgg 300
gaaatagcta gtgtagaatt tatctgatat agaacactca tatcgataaa atagtttgaa 360
ctatttacta gaagggcacg cagtcctttt tccaatgcc aatcgacgac ctatgtat 418

<210> 14775
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-028-Q1-K1-G9
<400> 14775

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cgcttcacca cagcgaacca ccatggaaag attctactac gtcgccgtgg ccaccttcgt 120
gctcgtcttc ctgctccacc acctcttgac gaggaagaag cagcaacgtc tgccacccgg 180
cccgcggttc gcgtacccca tctcggcca cctccccttg ctcaagaagc cgctccagac 240
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ccacgccgtc gtcgtcggct cggcgccggg ggcgaaggag tgcttctccg gagagctcga 360
cgtcgcgatc gccaaaccgc cgcacttccc gtccgcgcgc gaggtcacct tcgactac 418

<210> 14776
<211> 395
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-028-Q1-K1-F2
<400> 14776

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atgttatggg gtccctccat gagctaaaat tgttgcttca taaaatgagc gaacataatg 120
taagggtat ggcagatggt gttatcaacc atcgaattgg aactactcaa ggatccaatg 180
gcatgtataa tcgttatgat ggcacccag tatcatggga tgaacatgct gttacatctt 240
gttctggcgg gaagggaaac aagagcactg gggataactt tgatgggggt cccaatatag 300
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cagttggttt tcaagatttt cgctttgatt tcacg 395

<210> 14777
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-F4

<400> 14777

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tcgatcggcc gagatggcga cgccgggacg ggcgttgccg ggatcgagac gaccgggaag 120
aagaagcagg acaacggcgt gtggtacgac gacagctcgg cgccggtgcg cgcgagacc 180
atcgacgagc tgcactcgct gcagcggaag cggtcggcgc ccagcacgcc caagcggtcg 240
gcgcccacca cgcccatcaa gggcggtgcc cactcgccct tcgccgtcgc gatctccgag 300
gaggagcgcc acacgcagca gatgcagtcc atcagtgcgt cgttggcgtc tctgacgcgt 360
gaaaccgggc cgaaagtggc caagggcgac ccggccgcga agggcgaggc cgccgcgcag 420
ggcgcgccat cgacgccgag ggcgcaccag ca 452

<210> 14778
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-F5

<400> 14778

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aggaagacgg cgatgggagc gactacgagg aggaaggcga ggcgctcgac gaggacgagc 180
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acgaggacga cggggagggc gacgtctccg acaggctcat ggcgctcgtc gggatcggtg 300
attggcgagc aatggagcag gatgatgctg gggacgagga ggacgacgaa gatgctgaag 360
ttcatacaca ggggtgcatgg gaagatgttg acccagacga atactcttac gaggagctaa 420
ttgcgctggg tgaagttgtc ggt 443

<210> 14779

<211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-F6

 <400> 14779

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 ggccacgctg cgcgccctgg cgcgcgacgc cgcgagcag ctgcggctgc cgcgggccgg 180
 cacgtcggcg tcggcgctcg cgctcgtcgc gccgtggcgc gggcgcgagg accacctcca 240
 cggccacggc aagacggcca aggtgatgca cctgctgctc tggggaccca agtgaagcgg 300
 cgagaggcca ccgtaccgcc ggcgttgctc gttttgctct gcctgcaatc cgccccgcac 360
 ggactgtact gtactgtacc tatacaccta tatactacga cgtgcacatg tacgagtcta 420
 cgacgtgctg ctgtaccata ctaatacta 449

<210> 14780
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-028-Q1-K1-F9

 <400> 14780

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 ggaccagcca ttcccgggca aagatggttt cagaagccag cgagcttggc attggcacac 120
 actatacaca ctggctcgtg atattttgat tcccacgtg cgacacggca tctaccgctc 180
 gaggaactcc acatctatct ctccatgaag ctcgctatat atgcatgtga gcttggcatt 240
 ggacacccac agagcagcca cttggatccg gtgctcagcg gaacagctag ctatagcctg 300
 tagctagcag ctagcttcag tcacaggccg gacggtcggc tcacacacag ctagccgncg 360
 ncgctgctag cttagccacc agtagtccga tctgatctac aggc 404

<210> 14781
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-G1

<400> 14781

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actgatatca accccatcca gtccgactca ttcttcaacc cggtcctaac tagcactcct 180
catcccaacc ttattatcct acaccacagt gtcaaaagaa atgcatacag cacaaccaag 240
tttttcagta aaacaagcat ctcagcattc atgcgtacac aataaatcca catccacatc 300
acataatgcc atacatctac aaacatcgac ctgtctaatt ttcttacaca ctttactacg 360
attttcaaca c 371

<210> 14782
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-G10

<400> 14782

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gccgtccctc tccttctgct cctgctttac cacggctcat caattcgccg ccgtcgtcgc 120
agcagcagat cggccaagca gggaggacag ctctgcccgc cttcgcccc ggcgctgccc 180
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gtcgcgtcat cgccgcgggc cgcggacgag atcacgcgca cgcacgacca cgtgttcgag 360
tcgcggccca cgtacactct cagcgacgag atcctgtacg gaccctccga catcatcttc 420

<210> 14783
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-G11

<400> 14783

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 tttgtttagt gtgccaagct cttttcagtt cgaagcaagt tctcttctca ccctgtccgg 180
 aggataaacg aaggttctac ttgaacgaaa catctgctgt ggatccactg cacctgaagt 240
 acttcacttt tgcggagcgg ataattggat tagccttgat gcataaagta caagttggag 300
 ttgtgataga ccgtactctg ttcttgcac ttgctggcag aagtattacg ttagaagata 360
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 ct 422

<210> 14784
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-G12
 <400> 14784

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 caggctcctga cgttctaagg caatggcact gtcaaatgtg ccaagctctt ttcacttcta 180
 atcaagttct cttctcacc tgtcctgatg ataaaccaag tttctacttg aacgaaacat 240
 ctgctgtgga tccactgcac ctgaagtact tcacttttgc tgagcacata attgaattag 300
 tctagatgca taaagtacaa gatgtagttg tgatagaccg tactctgttc ttgcatctcg 360
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 gttaaaaaat tctag 435

<210> 14785
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-G4
 <400> 14785

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gagagtgaag ttaacaatat catggatggt gttgggctac agcctgaaag acacactatc 120
 ctgaaaaggc tgaaagagtt gttttccatg cgacagcaag gggtttcttc gcaagattgt 180
 gttgagtcaa gcccagatca atgtgtacct gaagaaacaa aggtcaatac aaacctttcc 240
 tgtgacccat tagatgtcac tgtggaagac aaaacctctt ttcaagaaca ccatggagaa 300
 tttgatgagc ttcgacaaat cattgctgat ttatccaaga gggctgaagc attggagaaa 360
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<210> 14786
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-028-Q1-K1-G7
 <400> 14786

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 gcaatgtatc tgagaactcg cttcatagcc accaagtgtt cttgtctggg atcctgcatg 180
 aaacgactca aatatccaac tgagaaggcg agatctggcc ttgtgttcat cagatagcgc 240
 agacttccaa tcaggcttct gtacttggtt gcatcaacct gaggtgaatc actgtccttc 300
 agcagcttga gccttggtcc attgggtgntc acttgngtac aggtgctcag tctgcatc 360
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<210> 14787
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-F12
 <400> 14787

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 accgtcctac gaggagcggg acgtgctcac gcgcgcgctc aggaaccgcg agctcaacaa 180
 gcacgcgcgc ctgggctgcc aggtcgctct caccgcggag ctgcatggca tggctgctgc 240

tgtccccgag cctaagccgt gggacatccc gtaatggcct gccgcgacga atggcaaggt 300
 gcggctttcg acgctgtgag ccttccttca ttcccctggc tcggtcaagc ttgtgcgcct 360
 ctgccatacc cttttatggt acggatttga tgaagaataa tagtttgatg ggaaaaacct 420
 g 421

<210> 14788
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-D12
 <400> 14788

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 ctgcccacca tgggctgcta taaccccggc acaagctcca gcgctgtccg tctacgcgcc 120
 gactactttc ggtgatcagc gctccgtcgg tgcagaatgc ctgtggctgc tagcccgaga 180
 ctcaccaact ccaggctaaa cgagcacgcc ttacagcgac tccagctcgc tagtgacgac 240
 gagcactaag aagggacaaa cggatagcta caccgactag agatcacaaa cggacgagaa 300
 ctagctcgcc attgccagac tcggcctgac cgacaagctc gtagccacgc tcgagaagcg 360
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<210> 14789
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-D2
 <400> 14789

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 atcgcatcgt tcagctttac tggttgacct tgtaagatc atctcggaca tcatcattaa 180
 tgtccaatct gtagagtttc gacactgaag ctctcctggc taaagcaaaa tttcatgtca 240
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404

<210> 14790
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-D4

<400> 14790

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acattgtaca aattctaaca cctcaccccc tctactacac ctcataactca aaccctaacc 120

ctacaacctc tcacccctct actcctacca ataactcccc c 161

<210> 14791
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-D6

<400> 14791

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aagatgacgt aacgggtgga ctaattcgca agatgattgc caagtggacg acttctaaca 120

acactaacct agtgttatcc aggcaagccc cggatgcattgc aaccccttcc ttgtgttttt 180

aaataatttt tacacacttt aagtctagtg aatgtgcatt aggtttatag gagttgcttg 240

gaaacccttt gatgcattgc ctaccttgat atccatacct atagagatac ttctggtgaa 300

gtatcaaaat tatgatttac aaaaaaatgc ttagccctgc ttataggcag atagagtttg 360

tcctttgcac ttatgcctag ctcaagttga tcctgaggaa ggatgacctc tacctgcacg 420

gatatttnta ttggggagcat ggtgggac 449

<210> 14792
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-D7

<400> 14792

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ggtgaccaac atcctggcgc accgcgacgc gacgcagcgc tcgctgatcc agcaggagta 180
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caagcgggcy atgctgctgt ggatcctgga cccggtcact cgcgacgcca ccatacctgaa 300
gcatgcgctc acgggcgaca tcaccaacct gcgggcyggc acggagatcg tctgctcccg 360
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<210> 14793

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-D8

<400> 14793

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agccgctcgc cccgcggcgc ctgccaatgg cccccccgt gtgagtgtgt gtgagaggca 180
gagacctaga ggccgctacc cggggaggag agggaggag agggagaggc tgatagatgt 240
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tagacaagca ccttgagaag gcggtcgcat cgccgtccac atcgaggggg tcagcgggcy 360
gcggcggtgt gcgcgaccac caccgcctca tcgtgccgtc ctccgtgtcg tccatcccca 420

<210> 14794

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-028-Q1-K1-E1

<400> 14794

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 tcgagctcgt cgacgtcaac gaccccttca tcaccacgga ctacatgacc tacatgttca 180
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 cgtgggggtga ggctggcgct gagtatgtcg ttgagtacac cggcgtcttc actga 355

<210> 14795
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E10

<400> 14795

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 tcatctccac cttcacctgt ccgcactgtc agcgggaggt tccatcttca aacattgcat 180
 tgcacagcgc gcactgcgct cggaaccttc agaagtgcga acattgcgga gatatggttg 240
 ccaggaagct tatggatgaa cactacgatg aaaaccatgc tccgatgaat tgctcacttt 300
 gcaaacacac agtagaacgc gagctatggg atcctaatac aggcatacaa ggcccacaaa 360
 ggatgctcgc gtgcccaatac tgtcagtttg aactgcctgc agttgatctt tatgaacatc 420

<210> 14796
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E12

<400> 14796

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 ccgctagtac cagtagtcgt cgcgtttgca gctaggcaga tctgagttag ccggcggatc 180
 cgatccgtgc gcgtgcgcag tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tcggtggaga 240
 gatggccaca gcttacgctc ccatggcgag ccaggtgatg aagagcagcc tcgtcgtgca 300

ctcgaggccg aagggcctgt caggcgctgc tgcgctcacg aggcggcccg gccggttcac 360

cgtaaggcc atccagcccg agaaggcaac gtaccatgtg gtgcagccca tcaacggcg 419

<210> 14797
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E2

<400> 14797

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<210> 14798
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E5

<400> 14798

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ccctacgagg gccccgagtt caccgagctc cctgtgaatg ttcagaaagg cctgttcaag 180

tacctggagc aaagaggggt aacgctgtcg gctaccaact atatgcacga ttacatgggtg 240

actaagcagg ctcaggagta catccggtgg atgactaagc tgaaggattt cgtggcgag 300

tgaggaacag cgtcgtgatt cggcagcatt gtttggttag cctagcctta gcatgtgtta 360

cagccttaca ggaacactac gactacaccg aattggccac actccccaaa aac 413

<210> 14799
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E6

<400> 14799

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gatcatcatc aggcggaggc gatgcgacga tacagaactt tgtacatgcg tggtaggtgt 180
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tggtagtaat aaataggagt ataatcgta tcatgatcgg ttgcgtgtgg aatgccaatc 360
aagtgtgtaa tctgttccaa ataacaaacc tatgttcctc caaaaaaaaa aaaaaaaagg 420
gcgg 424

<210> 14800
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E8

<400> 14800

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aaggtagcag agtatgttaa agaaaacctg ttcaacaatc ttgttagtca tccaaagtgc 360
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<210> 14801
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-F11

<400> 14801

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tgtagcatgt gtagctacta tttagtggg tgcatgtgac atcaaatttc gattgttgac 180
ctcatatatg ttactggact tcaaaatttg ttcttcatt ttcaatctga ctaactactt 240

cgtcgaagtt tttctcatat tttttgtgcc attattagat accatgatga taatagatcc 300
 tgactttatt ttttgtacta caggtagcac aagagtattc tgaatgcca tcagggaaga 360
 aaggtggaga tcttggttgg ttcccgctg gcaagatggc tggtcctttc caggaggttg 420

<210> 14802

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B12

<400> 14802

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 gcctggggccc ggagctgcag cgcattgcgcg cgggcctcat ccgactctgc gccgacgccg 360
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<210> 14803

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B3

<400> 14803

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 ggtggatcta tactatctcc tagtatccaa aaagttcgag aatcctgcac aatgcgaaca 180
 agctttggtc ggcaagttta agatactgta ttacgacctt accactgcgt tccttaacct 240
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 tgtcttataa 310

<210> 14804

<211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-B5

 <400> 14804

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 tctttggcgc gagggcgggc gggacggagg gcgccgagga ggaggcggcg gcggaggagc 180
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<210> 14805
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-B9

 <400> 14805

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 tataaatcta tcgcatgagt cgcaagaaga tgcaacgtcc ttggcggatt gatgactttg 120
 acatgttcaa aaagagaatg cttactgata ggaaggacca atcatacaaa atagcactgc 180
 tttttgttga taactcaggt gctgatgtgg tccttggaat gcttccttta gctagggagc 240
 ttttacgcca tggaacagag gtagttcttg ttgcaaattc gttgccggct ttgaatgatg 300
 ttaccgctaa tgaacttcca gaagttatag ctgaaacctc aaagcactgt ggtatccttc 360
 ggaaagctgc ataagctggg ggattgatag tcgatgcaat ggctggca 408

<210> 14806
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C1

<400> 14806

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tacgggcctc gtggaacttt gagccagcac gagaccctcc tgggcctttc ggcgctctca 120
gctcgccggc tgctgaccaa agtcctggcc gagatgttgc cgcacgaggc accggacggc 180
agtccggttg gacagctgcg actcgacaga cttgcc 216

<210> 14807

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C10

<400> 14807

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tggaccttcg atgatgtcca ggtgaacgac atctcgctga acgactacct cgctgtgaac 180
gcgacgaagc acgcgatgta cctgccgcac accgcggggc gctactccaa gaagcggttc 240
cgcaaggcgc agtgcccgat cgttgagcgc cttacaaact ccctcatgat gcacgggcgc 300
aacaacggca agaaggtcat ggctgtccgc atcatcaagc ataccctgga gatcattcac 360
ctgctcaccg 370

<210> 14808

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C11

<400> 14808

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cgacttcggc tttgatccct ggggcctcgg atctgaccgc gagagcctgc ggtggaacgt 120
gcaggcggag ctggtgcact gccggtgggc gatgctcggc gcggcgggta tcttcacccc 180
ggagttcctg accaagatcg gcgtcctcaa cagcccttc tggtagaccg ccggcgagca 240

gcagtacttc accgacacca ccaccctctt catcatcgag ctcatcctca tcggctgggc 300
cgagggccgc cgttgggctg acatcatcaa gcccggaagc gtcaacaccg atccccatctt 360
ccccagcaac aagctcaccg gcaccgacgt cgggtaccct ggtggcctgt ggtttgaccc 420

<210> 14809
<211> 194
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-028-Q1-K1-C2
<400> 14809

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caatttccat gctgttgtga ccgctgaccg tgccctgtag aatttcgagc caaacgagac 120
cctccttggt cttccagcgc tctcatttcg caacttgctt accaaagtca ttgcccagat 180
ttttcccgac gatt 194

<210> 14810
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-028-Q1-K1-C4
<400> 14810

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tgggtctggt ggccggtagc agaggttgct acacgtatat attctgaaga agagatcgag 120
atgaccagcg tgtggaagac caaggttctg cctggcctca acaagatctt tgacaaggat 180
ggcaagaaag ctgcagctgc aggcttcttg aagtccttca acaaggagga gattgacaag 240
gagattgagg acaagaagac agagctggag cccaaggctg tggaagccta cgaagcatct 300
cctcctgagg tcaaggctct gttcaaggat aagaagccag tcaaggctcag caagaagaac 360
tcggctgcag tcaccaagtt cctcgatgag ctggctaaga ttgacttccc tgg 413

<210> 14811
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-C6

<400> 14811

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ggggtcgccc agcggacctt ctctctctct tccccgcacg ccccgccgct ggctgcgtcg 120
ggctacaccc cgcgccgcga gtacggcctg gtgcccattg tgatcgagca tacctcccg 180
ggggagcgcg cctacgacat cttctcgcgc ttgctcaagg agcgcacgt atgcatccat 240
ggcccatca ctgacgatac ggcgtccctc gtcgtcgccc agctgctctt cttgaatcc 300
gagaaccccg ccaagcccggt ccacctctac atcaactccc cggngggcggt cgtcactgcg 360
ggcctngcca tctacgatac catgcagtac atccgntccc ccgtcaccac gc 412

<210> 14812
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C7

<400> 14812

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cgccgtctgg ccaccgtcga ctttcaaacc ttctctgct cttccccgca cgccccgccg 120
ctgggtgcgt cgggctacac cccgcgccgc gagtacggcc tggtgcccat ggtgatcgag 180
catacctccc actgcgagcg cgcctacgac atcttctcgc gcttgctcaa cgaacgcac 240
gtatgcatcc atggcccat cactgacgat acagcggtac ttgtagtcac ccaacttctc 300
ttcctt 306

<210> 14813
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C9

<400> 14813

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gatctcttga ctcacgacac gagcagcaga attcgtcgag ggccgctggt tgctgcgaga 120

ggtccggggc ttcgtgggat ctgtaagaat ctcttgctct ccatacatgt tcttggtgtg 180
 cgatctgac cagtttgatg ttcgtttttt gtctgggtatt cgattatgct gggatttcta 240
 agaaacccta atcccagttt gatgggttagg gaagtaataa ttacttgatt tgtgaaaggg 300
 gattaatttg tgaaggagaa tgggggtgcct atattccttc actaggactc gatttttcgt 360
 ttcgttgaga atcttgata gccctctggc gtctgggttt ctagtttctt cggttgcgta 420
 tcgaat 426

<210> 14814
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-D1

<400> 14814

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 agggaccag atagatatct atgatgatgg ccctgaaaga agcttacttg tgggtggaaac 120
 agcggatcgt ccagggttac tgggtgacct tgtaagatc atctcggaca tcagcattaa 180
 tgtccaatct ggagagtttg aactgaggg gctcctggct aaagcaaaat tccatgtcag 240
 ctacaggggc agaactga ccgaggcttt acagcaagtt ctttctaata gcttgcgcta 300
 tttcttgagg cggccgacaa cagaggacgc cagcttctaa ccagatagat gatcatg 357

<210> 14815
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-D10

<400> 14815

cattgttttt cattgcaagt tacgcaccac tattcgtgag ctagaatgac catacgttga 60
 acccatacac aatcatcttc aactcctgtc agcattacgt cactcccagt tactggatgc 120
 atactctttt acgctagtct agtggtgcta tgttccatcc aactacaatc agtccagct 180
 actcagggtc acttgcagcg tctgcgatta cctgtcaaga ctccgagAAC atcttcctaa 240
 gagtaaaagt cataaacttc gggtcagata ctgtgaccct gacaatcttc acaaatggtc 300

tccaatccag tatcaacgct ctttcatcaa ctttactgc tctcacatc

349

<210> 14816
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B11

<400> 14816

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ctgcgcgtgg ccacggagtc gtcctctgcc gcgcgcacgg ctacgggtggg tgtgtggatc 120
gatgcgggca gcaggtacga gaacgaggag gcggccggcg tcgcgcattt tgtcgagcac 180
atgctgttca agggcacagg gaagcgtagc gccgcgcagc tggagcagga gattgaggac 240
atgggtggcc acctcaacgc ttacacgtcg cgggagcaga cgacctacta cgccaagggtg 300
cttgacaagg acgtgccccg tgcgatggag gtcctcgcgg acatcctgca gaactccaat 360
ctcgaccagg cccgcattga acgtgagcgc gaagtgatcc tacgagagat 410

<210> 14817
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H6

<400> 14817

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gttgtgttaa cgttttgggc atgccaagaa ctatcttttt ggttatgagt ttgtcaaaca 120
tatgttgagt ttgtcgctca tt 142

<210> 14818
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H7

<400> 14818

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gatgtgttaa cgttttgggc atgccaagaa ctatTTTTTT ggttatgagt ttgtcaaaca 120
 tatgttgagt ttgtcgtca tttcttaaga gctatttctg tgatcgaaga aatttgttta 180
 ttttagtggc atgaataaga aaaccaagca aatccatggt agaaacttgt ttgtgtgcat 240
 attttgaggg ctttgtttta ct 262

<210> 14819
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H8

<400> 14819

ggctactccc tgaatgtccc tctagatgat gggattgatg atgatagggt accagtcctt 60
 ttttaagcca atcatgggca aagttatgga ggttttccgc cctggtgcag ttgtgcttca 120
 gtgtggtgct gattccttgt ctggggatag gttgggctgc ttcaacctct caatcaaagg 180
 tcatgcggaa tgtgttaggt atatgagggtc tttcaacggt ccattgttgc tccttggtgg 240
 tgggtggatat accataagaa atgttgcacg ctgttggtgt tatgagacgg gagttgctct 300
 tggccaagag cctgaagaca agatgcctgt taatgagtac tatgaatact tcgggtccaga 360
 ttacactctt catgttgcac caagtaacat ggagaacaaa aatacacgac aacaactgga 420
 tgatatacga tctaa 435

<210> 14820
 <211> 277
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-028-Q1-K1-A1

<400> 14820

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 agagcaagct catgacccgc ctcacgtaca cgctggacga gatcgagggc ccgctcgagg 120
 tcggctccga cggcacgctc aagttcgagg agaaggacgg catcgactac gccgcccgtca 180
 ccgtgcagct cccggggggc gagcgcgtgc cgttcctctt caccgtcaag cagctcgctcg 240

ccaccggcaa gcccgagagc ttengcgggg cccttct

277

<210> 14821
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-A10

<400> 14821

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tggcatgcgt gcaaacttgt gaactcaaat gtcataaaaa gtgtcaaaaa atcctagtgg 120
tgtacacaac ggaaagcatg gatggtatgg gagcaaagtg gcatagacac aaatgcatta 180
acattaaagg gattaaaaat cctatgctgg acaaaggctc ccaattcaag tcagcaaaag 240
taggtaaaac acgtaaata gaatgaataa ctaattataa atgttcagta gaattctata 300
tgtctaatac taccttngcc aaaatatctt tgtaaagaga cttcangttc cttttgaggg 360
anatcatcta atctgagcat atctctcttt atattactgt tctcaatgtt ctcacatggg 420
ac 422

<210> 14822
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-A11

<400> 14822

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ctcaagttag aagaagcacc agtgcttgat cgatggcggc ccaggctctc ctctccggcc 120
ggcagctgct gggccgcccc gtgcagtcgg ccgtctctag gtcgtcggcg aggaaggcgc 180
ccttcgtcgt cagggccagc tccagccctc cagccaagca aggtgccgac aggcagctgt 240
ggttcgcgtc caagcagtc cctctctacc tcgatggcac gctgcccggc gactatggct 300
tcgacccgct gggcctctcg gacccggagg gcaccgngg cttcatcgag cccaagtggc 360
tggcctatgg cgaggtgatc aacggccgct acgccatgct gggcgcggtg ggcg 414

<210> 14823
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-A12

 <400> 14823

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 cccccctaca agaagcccca tgaccttaag aaggcctgga aggtgagcgt gtcaccgct 180
 gtcacaaagc acatgtcacc agacatagag aagatccgtc gcctcggttc ccagtccaag 240
 tgcctccagg acaagatgac tgccaaggag atctcgacct ggctggcggt cgtcaagcag 300
 gaagaggagc tgtacctgaa gatgcaccct ggcgacgcc cgccggcatc cgctgggtggc 360
 atcgccagtg ccatatcttt caac 384

<210> 14824
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-A2

 <400> 14824

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 ctagactcag gacaaaacag gaggagtggc caagggtgctg atcaaattcc aacatagttt 120
 gggccgaaat atatgcaaaa aattatcaca agtcacttga ccatcgtagt ttctatttca 180
 agcagcaaga tacgaagaac ctgagcacia agtctctcct gacagagata aaagaaatta 240
 atgagaagaa aaggaaggaa gatgatgtgc tccttgccat tgctgctgga aataggcggc 300
 ctatagttcc caatat 316

<210> 14825
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-A3

<400> 14825

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gggacgagga gggatgggtc ggcggcagga gcggcaggcc atgatggtga cgttcgcgtt 120
ggcgctgctc atgggcatcg ccgtctactt ccgcatctgg gcccgccagt ccagcgaccc 180
ctccttcacc gccgacgacc gcgaggagct ccggaggcaa tttgaacaag caaacctaga 240
agcgatggat gaatctgccg aatggaggat gaaatatgat aaagaaatag agaaaaacag 300
gcagttgcat gatga 315

<210> 14826

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-A4

<400> 14826

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aggggtttgt tttgttaatt aagaaaaggt ccccgatctc aacaaattac ttctgattac 120
cttcaaaatt catttgaag acccatacca tttcccgatt catgggtaaa tttactttga 180
ttctctatag accaataatg tgagaccatt aacacggta aaagctaaac tgcttgaagt 240
ccgggcaaaa aggggtactc tttctacaac tacattagta ttagtctcga aatgctttaa 300
accggaatt acctagtga gaatttaacc tgatttagaa cactcatatc ga 352

<210> 14827

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-A5

<400> 14827

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acgccctcca caacgccttc agcacctacg gcgaggctct cgagtccaag atcatcctcg 120
atcgggagac gcagaggtec cgcggcttcg gcttcgtcac cttctccacg gaggaggcga 180
tgcggaacgc catcgagggc atgaacggca aggagctgga cggccgcaac atcacctca 240

acgaggccca gtcccgcggc ggccgtggag gcggcggcgg cggctacggt ggtggccgtg 300
gaagcggcgg ctacggcggg ggcgggccc ttgatggcgg cggcggctac ggcggtggcg 360
gcggcggcta cggtggcggc ggtggctacg gtggtggtgg tg 402

<210> 14828
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-A6

<400> 14828

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tggagttggg cgccttgagg ttcttcggat tcacacgaaa aacatgaagc tggctgaaga 120
tgttgacttg gagatcattg cgaaggatac tcatggttat gttggtgctg atcttgctgc 180
cctttgtact gaagctgctc ttcaatgcat tcgtgagaag atggatatta tagatcttga 240
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gactgcactt gggacaagca acccatctgc tctgcgtgaa actgttggtg aagtgcacaa 360
tgtctcttgg gaagatattg gtggcctgga aaatgttaag agggagctac aggagactgt 420
tcaatatcca gtggagcatc cagagaaatt tg 452

<210> 14829
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-A8

<400> 14829

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gcatggtcgc gttcgcaggc ggggatgtcg aacgcggccg aggacgcgtt cctcgacctc 120
gtccgcgcct acgcggcgcg gctcgtgcgc ctgcgccacc cgggcgtgct gtacgtcgtg 180
caggcgtcgc acgagaccaa ggccgccatg gccatggcca ctgagcccgt cttcgcttcc 240
gtagctaacg cgctcgggtg ccttgacaat gttggcaagg tgcccaagga ggtcaagggc 300
atggaaatgg ggctacttga gattaaacat gggctgctac aagttgcaaa gacgttggat 360

tttcttcata acaatgct

378

<210> 14830
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-A9

<400> 14830

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acagccgtgg ctgctaagta tctcaatctt gattgctacc tgatactacg tacctccaag 120
cttcttgtgg ataaggaccc tggtttgggt ggcaatcttc ttgtcgagag actagttggg 180
gcacacgttg atcttgtgtc aaaagaagaa tatggaaaaa ttggcagtgt ggcttttagct 240
gacctgctga aaaaaaggct tctggaagaa gggaggaagc cgtatgtgat tcctgttggg 300
ggatcatact cattngnaaa cttgggatat atngaggcaa taaggga 347

<210> 14831
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B1

<400> 14831

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gaagaagaag atggcttcct ccgcgtacgc ctcatggtcc aagcgggtgga tccgtcccga 120
ggtgtacccg ctgttcgtgc cgatggccgt ggcctgggt atctgctcgt accagcttgt 180
gcgcaacatc acgggcaacc ccgaggtgcg ggtgaccaag gagaagaggg cggccggcgt 240
cctggacaac cagcagcagg gcgagaggta cgccatgcac ggcctcagga agttcgtccg 300
cggaagaag cccgagatca tggcttccat caactccttc ttcgccgacc ctccaagga 360
cgattaagct agattccgtc atggatggat gagtatgttt taccaatca 409

<210> 14832
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-B10

<400> 14832

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gtagcgcagg cgaaaaggcg gcagcagtgg acggcggcga accctagcct agctccgcga 120
gtgcgttggc ggtttgatcc gatggccgtg gcgtcgcggc tcgcggtcac gcgtgtgtcg 180
ccggcgggacg gcgcgcgccc cgcgggcgcg gcggggagga ggagtgggct cgcggtgggt 240
cggctcccg cgaaccgacag cagggggaga aggaggaggc gcggcggggc cgtcgcggcc 300
agcccccca cggaggagggt cgtgcagatg acggagccgc tcaccaagga ggacctcgtc 360
gcctacctcg tctncgggtg caagcccaa gagaact 397

<210> 14833
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H5

<400> 14833

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caccatggcc gtctccatcg ccggcagcag catccgcctc cacgttgccc cgcccagtcg 120
ccgccgcgtc agcgtggtct ccgccgccgc cgcgggcccg ctcgaccggc gctcggcggc 180
cctgtctctg ctgtccacgg cggttccagc agcatcgga gcgacagctc ccccagcgag 240
cgccgcgggc atcgggtctt tcggcatcct caagaagctg gagcgcgcg aggaggcggc 300
ggccgaggcg gtgagggagg tggaggaggc ggtg 334

<210> 14834
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-F3

<400> 14834

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tccccgccta	ccgctgcgac	caccgcaccc	gcgaacttgg	cgggccgctc	ggcgctgcac	120
accaagccgg	ggatggccga	ctcgcttgcg	agctcgccgc	ttgaccacct	aactacctcc	180
cgtctccgcc	tccccaggcc	ccatgcctcc	gcttccagtt	cgggtccagt	ctgctggatc	240
ggcgtgtgct	cgggatggat	gctcacggcc	tagtggagag	ccctgatgca	gcgccaccgg	300
cttcgatgct	tgtccaccga	cgggtg				326

<210> 14835
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-027-Q1-K1-F4

<400> 14835

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gaagggccca	gtgataatgg	aaattccact	ggaccaaadc	cggaggccac	tgatgcgaac	180
gcggggccaat	gatccagtca	aggtgcaaga	actcatggac	agtatccgtg	tcacggcct	240
tcaagtacct	aatgatgtgt	tgaagtccat	gggtctatta	tggctctctg	gatgccaccg	300
ctacgaggct	caccagcgcc	cttgggtctcc	caaccatccg	ctgcanagtt	cgccgtggga	360
caaaggaaac	actgaggcac	catatgcgat	gagttatatt	ttattcagt		409

<210> 14836
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G11

<400> 14836

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ttacttgggg	acttcaacga	ttcaagggat	gattttgaga	agatgattac	cattggcaaaa	180
tcacagaac	agggcgctac	agccggactc	cttaaactta	agcagaaaaga	acaagaagcc	240
caaaaggaag	cgaggaagca	gttcaaagga	ctctttgaac	agaagccagg	agagatatcc	300

gaaattggtg tagaatcaga tgggtggaaag gatgcatgtg at

342

<210> 14837

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G12

<400> 14837

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gcgctttgct gggcaagccg gtgaaggggc ttggcctgag catgggcccgc gagcgcgccc 180

agcggagcat tgtgtgccag gcggcgagca gcattctccgc cgaccgcgtc cccgacatgg 240

agaagcggaa gctgatgaac ctctctctcc tcggcgccat ctcggttccc accgtcggca 300

tggtcgtccc ctacggcgcc ttcttcgtcc ctgccggctc cggaacgcc ggcggcggga 360

cctacgcgaa agacaagctg ggcaacga 388

<210> 14838

<211> 257

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-027-Q1-K1-G2

<400> 14838

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tggctcgggg aatcatcaat cctgggttgg ttgccagtgg caattgttcc taaccagtt 120

gctttgaaaa ggggtattga caaagccgtt catgagctaa ttaagatctt gaagagtaaa 180

tgtatccctg tgagtacaaa ggaggacata aaagtaaadc ttacgttctg gaaaatagtg 240

ttcgtgtgtg taaaaat 257

<210> 14839

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-027-Q1-K1-G3

<400> 14839

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gtgcgccggc cgcggcgcgc tcgcggtcag ggagcacgtg gcgggcgcca cgctgcggaa 180
catcctccgc atggcggtcg gggagaagtg gtcgggctgc tacggtagcc ccgagggcga 240
ggcgttccgg cgcacgctgg acgaggcggt cgcggtcacc ggcgcggtca gcaacgtcgg 300
cgagtgggtc ccgtggctgg gctggctcga cctgcagggc tgcgtccgcc ggatgaagcg 360
cctncgcgcg cagtacgacc gcttcttcga gcagatctc gacgaccacg 410

<210> 14840
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G4

<400> 14840

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tgttcccttc gatc 74

<210> 14841
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G5

<400> 14841

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acaatgcgtc gaacgcctcg ccggcaccgc agcagccgag gtgggggtgcc gcggtatccg 180
ccgcgctcgc ggcggccgtg attgccgctc ctatgccagc ttacgcggac ctgaacaagt 240
ttgaggccga gcagcggggc gaatttggca ttggctctgc cgcgagttc ggctcggccg 300
atctcaagaa ggctgtccac gttaacgaga acttcaagcg ggccaacttc acatccgctg 360

atatgagaga gtcag

375

<210> 14842
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G6

<400> 14842

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ggttctgtag ccatgatagc tactggatgt gtcatggcac ggatttgtca cacaataat 180
tgtccagttg gagggttag tcagagagaa gagcttcgtg caagggttcc tgggtgttct 240
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ttgggttatg agaagttgga tgacatcatt gcgcgaacag atgtgcttaa cccaaagcac 360
atctcattgg tgaacacgca acacattgat cttggatacc tcctatcaga tgctggattg 420
cctga 425

<210> 14843
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G7

<400> 14843

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gcccagggcc gtattctatg caccgtcgca cccgatcgct cacgatgccg atcgctacgc 180
ctccgcccct acggacagcg atcagcccgc tctcggctc ggtccaccaa ggctgtagcg 240
gcagcactag ctgacctctt caaggctcatg atatcaagag ctactacgctc cggcaagggc 300
acacagtgcg agctgattaa gacc 324

<210> 14844
<211> 345

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-027-Q1-K1-G8

 <400> 14844

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 gctcaagacg tggatcatcg tgctgctacg gcagctgatg aatatgccta cggttctgca 120
 gccatgatag ctactggatg tgtcatcgca cgcattcgtc acacaaatca ttgtccagtc 180
 ggagcggcta gtcacagaga acagcttcgt gcaaggtttt ctggagcacc tggatcatctt 240
 cataactact tgctccttgc aacctaaaga gatcaagctc cattagccca ggtgggttct 300
 gacaaggcgg gctacatcag tggacgaaca gatttgcccta aacca 345

<210> 14845
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-027-Q1-K1-H1

 <400> 14845

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 tttcaagaaa tctctgttgg gaatgcaaca ccagtgtggt ataacatggt gaaacaaggt 180
 ctcatcagcg accctgtttt ctctttctgg tttaaccgac atgctgatga aggagaaggt 240
 ggtgaaattg tgtttgggtg aatggattct agccactaca agggcgatca cacgtttgtc 300
 ccagtcactc ggaagggata ctggcagttc aacatgggtg atgtcctggt tgatggaaaag 360
 tccactgggt tttgtg 376

<210> 14846
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-027-Q1-K1-H12

 <400> 14846

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 cttccgcgcc gcgcgacctc tgccccgacc ccgtccccgg agaatttggt gtcaatctat 180
 caactcaact aatgttttgg gagcttcttc gaagacatct gatgaggcaa tcccagtccc 240
 agttgtccag atagatcaag actcagaccg tgatgcaacc attgtgcagc taagttttgg 300
 agatcgtttg ggggcattac ttgacacgat gaaagctctc aaggaccttg gccttgatgt 360
 ctcaaaagga agtgtggcaa ctgactcagc tgtcacac 398

<210> 14847
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H3

<400> 14847

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 aataagcttg gtgggtctgt caagaatgct acgagttcaa atatgtctgt ctaccaagca 180
 atcacatgca tgatcatcgc caagctcttt gttggagggc tttcttatgg aaccgatgat 240
 cacagtctca gagacgagtt tgccaaatat ggacatgtca ttgaagctaa gattatcctt 300
 gatcgtgagt ctgggaggtc cagacgggtc ggctctataa cttacacgtc atttgaggag 360
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<210> 14848
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-053-Q1-K1-E3

<400> 14848

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 cgtgaccgcg ggggacctct ctctgccttc ctctcctcc tcccctgccg ccgccaaggc 180

caaggcggtcc gcgtccgcgt ccccgctcgtc tccatgcggc cacctccagt tcccgcggcg 240
gcacggcggc ccgcgcgcgg tgcggctgcg ggtgcagggt tccaccaccg agaccgcgga 300
ggcggagccg gtcaagaagc tggagaaggt gtccaagaag cangaggagg ggctcgtcac 360
caacaagtac aagcccaagg agccgtacgt cgggaggtgc ctgctcaaca ccaggatcac 420
c 421

<210> 14849
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C12

<400> 14849

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gaaactaaag caagtgttgg atttaaagct ggtgttaagg attataaatt gacttactac 120
accccgaggt acgaaaccaa ggatactgat atcttggcag cattccgagt aactcctcag 180
ctcgggggttc cgctgaaga agcaggagct gcagtagctg cggaatcttc tactgggtaca 240
tggacaactg tttggactga tggacttacc agtcttgatc gttacaaagg acgatgctat 300
cacatcgagc ccgttctctgg ggaccagat caatatatct tgtatgtagc ttatccatta 360
gacctatttg aagaggggttc tgttactaac atgtttactt ccattgtggg taacgtattt 420
ggt 423

<210> 14850
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-C5

<400> 14850

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gttggattta aagctggtgt taaggattat aaattgactt actacacccc ggagtacgaa 120
accaaggata ctgatatctt ggcagcattc cgagtaactc ctcagctcgg ggttccgcct 180
gaagaagcag gagctgcagt agctgcggaa tcttctactg gtacatggac aactgttttg 240

actgatggac ttaccagtct tgategttac aaaggacgat gctatcacat cgagcccgtt 300
cctggggacc cagatcaata tatctgttat gtagcttata cattagacct atttgaagag 360
ggttctgtta ctaacatgtt tacttccatt gtgggtaacg tatttgggtt caaa 414

<210> 14851
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B12

<400> 14851

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cggtttagtga aggaccagag aagcttttcta gttatgaatc gggatatagaa cccatggggg 120
gggcttgggtt acaattccga atacgctatt acatgtttgc gctagttttt gttgtttttg 180
atgtggaaac agtcttttct tacccttggg caatgagttt ttgacgtatt gtggtgtttt 240
cgttttaatt gatactttta tttttgtgct taccctatct gtatttttag tttatgcttg 300
tctttttgta ttttttgtat tgggttttatt tgtatttttg tttattatt 349

<210> 14852
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-G2

<400> 14852

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atztatgttg ctgctttacg aatatgatat tttttggaca tttctaataa tagcaagcct 120
tattcctatt ttggatcttt ggatttcagg acttttagcc ccggttagtg aaggaccaga 180
gaagctttct agttatgaat cgggtataga acccatgggg ggggcttggg tacaattccg 240
aatacgctat tacatgtttg cgctagtttt tgttggtttt gatgtggaaa cagtctttct 300
ctacccttgg gcaatgagtt tcgacgtatt ggggtgatcc gtttttatcg aagctttcat 360
ttttgtgctt atcctagttg ttggtttagt ttatgcatgg cgaaaaggag ccttggaatg 420
gtcttaactg aatattcag 439

<210> 14853
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-D4

 <400> 14853

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 gtaggttatt tgaagtatat tactatcata tacattatct aaatcgatcc acttttaaata 120
 aaatagaaaa aatcgaaaga aaaaaaaaaa gaaagagtaa ataataaaac aggatattct 180
 gtttcataat tctgaaatag agttcttttt tttagtatta ctccctcatta ggatgtatat 240
 attaatcatc ctattttaat atat 264

<210> 14854
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-042-Q1-K1-E10

 <400> 14854

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 gaagcagaag cttccgaaga tggcctacga ctactacgcg tccggcgccg aggacgagtg 180
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 cgacgtgtcc aagatcgaca tgaccaccac cgtgctgggg ttcaagatct ccatgcccac 300
 catggtcgcc cccactgcta tgcagaagat ggctcaccca gatggggaga acgccactgc 360
 gcgcgcggcg gctgcngcag gcaccataat gacactgtcg 400

<210> 14855
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-B7

 <400> 14855

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 ccgtggcgct gcctgcggcc aaggtgggca tcatgggccg tagcgccagc agcaggggca 240
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 tgcaggtgcc cgacgacgtg tacatcctgg accaggccga ggaggacggc atcgacctgc 360
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<210> 14856
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-003-Q1-K1-H11
 <400> 14856

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 aaggggcaaac gagctatttc actgagaagg acatgctgtt ctatgcaaca ggctccacca 300
 ccagcatggc ctgnngcgagc tgttgctgag cctggccgga ggtcatggga tggcccaaag 360
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 gag 423

<210> 14857
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-012-Q1-K1-A4
 <400> 14857

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 cagaacaggt ccgagtcaaa tagcaatgat tcgaagcact tctttttcca ttacactatt 180
 tcggaaacct aaggtctcga tcgtatggat atggaaaata cacgatttcc ggtcctagcg 240
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 tcatagatcc ctatagaatt ctggtgaaag ccgtattcga tgaaagtcct atgtaccgct 360
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<210> 14858

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B2

<400> 14858

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 acgaggagga catcatccac gagataacca tcgacgaaga agatctcccc gaccgcgacg 180
 acgaagatga cgacgtcgtc aacgggatgg ttgattccga agacatcgat gattctacat 240
 acgcatttca aggccaccaa gatgaagtct tcattgtcgc ctgcagtcct acagattcat 300
 cacttgtggc ttctggaggc aaagatgata ggggattcct gtggaggatt ggatcagaag 360
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<210> 14859

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B7

<400> 14859

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accaggcgga ggtgagccgc ttaatggact tgatcgtcca tagtctgtac agtcataagg 360
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<210> 14860
<211> 423
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-021-Q1-K1-H8
<400> 14860

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gtaccttacc ggattccccg agatgaagaa gcgacttggg ttgacttata caatgttatg 180
tatcgagaaa ggacactttt tttaggtcaa gagattcggt gcgagatcac aaatgatatt 240
acaggctctga tggatatatc cagtatagaa gatggaaata gcgatatttt actgtttata 300
aacttccctg gcggctgggt aatctcagga atggcgattt ttgatacgat tcaaacgggtg 360
acacctgata tatatacaac atgcctcgga atagccgcgt ccattgnctc cttcattctg 420
ctt 423

<210> 14861
<211> 367
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-019-Q1-K1-G3
<400> 14861

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ttgcacctgc tccagagtat cagccacctc ctactgctc tgctccacca atgagtggaa 180
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gcactatgct tgccaagggg ttcgtgctag gcaaagacgc ggttggcaag gccaaagcat 300
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367

<210> 14862

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B4

<400> 14862

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tgaagaaaga cgacgatctc gacgaggaag agtactactc gccattcctg ggcatagaga 180
agggcgccgt gctgcaggag gcccagagtct tccatgacct tcagctcgac gcgcggcgat 240
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ttgaggctac agaggtcttc tttgcaacga ccaagctgtt ccagtctaaa gatgcggggc 360
ttaggaggat ggtgtacctc atgatcaagg aactctcacc ttcagccgat gaggtcatca 420
tagtaacaag ctctttgatg aaggacatga atagc 455

<210> 14863

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B6

<400> 14863

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atcgacttcc tccccttcac ctgcgaccgc tgcgaccatg tcttttgctt tgatcaccga 120
agttatacat cacaccaatg cccaaatgca aacatgaaag acgtcactgt cctcatctgc 180
ccactctgtg ctaaagggtgt tcgcctcaat ccaagtgaag acccaaatat cacctgggat 240
actcatgtta aactgattg tgatccatca aattaccaa aagtgatgaa gaaaaagaaa 300
tgccctgttc ctgggtgcag agagacactg acattttcca acaccatcag atgcaaagat 360
tgcaccagag aacactgcct aaagcacaga tttgggcctg atcat 405

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 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-E1

 <400> 14864

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 agtccgggaa gccgctccac tacaagggct ccaccttcca ccgctcatc cccgagttca 180
 tgtgccaagg cggcgacttc acccgcgga acggcaccgg cggcgagtcc atcta 235

<210> 14865
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-F7

 <400> 14865

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 cgtacggcgg ctggggagcc cacggcggtg gcgccttctc cggcaaggac cccaccaagg 180
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 aggagaactt cgacttcagg cccgggatga tcagcatc 398

<210> 14866
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-H7

 <400> 14866

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tccgccttcg gcgaggcccg cgtgacgatg cgcaagacgg cggggaaggc caagccggcg 180
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 ggcgagccgc cgagctacct gacggggcgag ttcccgggcg actacggctg ggacaccgcg 300
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<210> 14867
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-A12

<400> 14867

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 gtctgacacc attgacaacg ttaaggccaa gatccaggac aaggagggca tccccccaga 180
 ccagcagcgg ctcatctttg ctggcaaaca gcttgaggac gggcgcacgc ttgctgacta 240
 caacatccag aaggagagca cctccacct tgtgctccgt ctcaggggag gcatgcagat 300
 ctttgtgaaa accctgaccg gcaagactat caccctcgag gtggagtcct ctgacaccat 360
 tgacaacgtc aaggccaaga tccaggacaa ggaggg 396

<210> 14868
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C7

<400> 14868

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 gcgagggccg catcaccatg cgcaagaccg tgggcaagcc caaagtggcc gcgtccggca 180
 gcccctggta cgggcccgcg cgggtcaagt accttggccc cttcttcggc gagccccga 240
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 accccgagac cttcggcaag aaccgcg 327

<210> 14869
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-034-Q1-K1-G5

 <400> 14869

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 ggcctggtgg gtccttcgac atcaccaagt tgggcgcctt cggcaatggc aagacagaca 180
 acacgaaggc tgtgcaggag gcatgggcat cggcgatgagg cggcactggg aagcagacaa 240
 tcctcatacc caagggcgac ttccttggtc gacaactcaa cttcac 286

<210> 14870
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-B3

 <400> 14870

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 ccgccttcgg cgaggcccg cgtgacgatgc gcaagacggc ggcgaaggcc aagccagcgg 180
 cggcggtccg gagcccggtg tacggcccg accgcgtgct gtacctgggc cactgtccg 240
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<210> 14871
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-D2

 <400> 14871

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cgtgctcaac tatttcgtca taaaaatcac agcaggatgg ggatggagga tatccctgtc 180
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aagcttcata atccaacgtg acggcaacaa cacggacaag gcaaggggtgc tgctccagaa 300
gctgcgcgga acggcctcgg tccagaaaga gctcgacgac ctgggtccgtg ctacgcacct 360
ctcacgagca acccggtacc cattcaggaa catactcgag aggaagt 407

<210> 14872
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D8

<400> 14872
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gatcatggct ctggatctta ctcacggcgt acatcgttct catggttacc aactgacac 180
taagaagata tctgcaactc caatattatg tgagacaatg ccttacagat tggatgaaag 240
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gatcattgct ggtgcaagtg catatgctcg gctatatgat tatgaccgaa tgcggaagat 360
atgcaacaag cagaaggcaa tacttctagc acacatggca catattagt ggcttgt 417

<210> 14873
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E1

<400> 14873
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tgctcggcct ccgacggctg tcgtccctcg ccacgccttg gccgcatcgc tggctcccct 180
cggttccagc catcagttgc cgcggcatcc tctcagttct cggtcagaga attcgcgcgc 240
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gacaccgtcg agtcgtcgaa ccccgctctc ctctgctcga ctcccaagca ggctccctga 360
tccacgtcct tctcgccgtc gatttcccac gcctgtggcc acggcactcg ctctcgggat 420

<210> 14874
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-027-Q1-K1-E10

<400> 14874

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gcttctgcgt cggctacctc atcttcatct ccaacaccat ggcgcacctc tatccgattg 180
ccgcgtcgtc ctctcccgcg ctctctctcc ccaaggcgct cgtcatctgg gcgatgctgc 240
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tcgccgacgt cgtcgacctc ggcgccatgg gcgtggctct cggccaggac gtcgccgnct 360
ggctcgccaa gcccggtgcc gtggtc 386

<210> 14875
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E12

<400> 14875

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ccgccgatcc aagatgcctt cgtgcgtgca gggatgctgc tgctgctcgt ccctgcgcct 180
tctccccgcg gacgacgcgc tctcgtcccc ctccgcctgc gcgcaccgcc tgaagccttg 240
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ccctgatcta cctgtctcta ccttccctc ctccatttct acatctcccc gttgctgctc 360
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<210> 14876
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-027-Q1-K1-E2

<400> 14876

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cccaccgcgg gggctcagaa gattgtctcc cttttcagca agaagcctgc ccagaagccc 180
aagcccgcgt cggtatcgtc gtcttctcca gacatcagcg acgagctcgc caagtggat 240
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tacctcaccg gagaggctcc tggagactat ggctacgacc ctnttggcct gggcaagaag 360
ccagaggact tcgccaagta ccaagcctac gagctgatcc atgccagatg ggccatgctc 420
gg 422

<210> 14877
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E3

<400> 14877

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gtgtttactc tccccggcca tcagtgtctc attgggaacg ccgcggtgcc gccggtgaac 120
gccgctggga atgatctcga catggcagac cttgtttggg gccggttgcg tgcgtgatct 180
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t 421

<210> 14878
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-027-Q1-K1-E4

<400> 14878

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gcaatccgtg aaggcgcgcc agatctttga cagccgcggc aaccctacag tcgaggtcga 120
cgtgttttgc tcagatggaa cctttgcaag ggcagctgtt cccagtggag catcaactgg 180
tgtatatgaa gctctggagt tgagggatgg tggctctgac tatttgggga aggggtgtctc 240
caaggctgtg aacaatgtga attctgttat tggacctgct ctgattggca aggaccctac 300
agcacagact gagattgata acttcatggt tcaacaactt gatgggacca aaaatgagtg 360
gggatgggtgc aagcaaaagc ttggtgctaa tgcgattctg gctgtgtcat tagctgtttg 420

<210> 14879
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 14879

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tacaccccg agtacgaaac caaggatact gatatcttgg cagcattccg agtaactcct 180
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tatcacatcg agcccgttcc tggggaccca gatcaatata tctgttatgt agcttatcca 360
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<210> 14880
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E6

<400> 14880

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<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E8

<400> 14881

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cgactctact ttgcgctata accaccaaac ctatcatgtc caactccctt tcgtgacagt 180
accatgatta ctcaactatc agcacccttg tcgacccag. 220

<210> 14882

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E9

<400> 14882

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tctgctccgt cgcgccagc ttggtcccc tctggccggt gacggcctcg cacgtcgctg 180
cgcgggttgc gcggaggggtg gacgtcggcg ccgcgtcaa gtcctacgcc gactcgctcg 240

tcgc

244

<210> 14883
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-F1

<400> 14883

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gtgcatcagc attgtttatt gagccgtctc gctgaggagg gggctcaagt tccccagagg 360
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<210> 14884
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-F10

<400> 14884

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gcgccgccat catgcgggag ggcccc 386

<210> 14885
<211> 380

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-027-Q1-K1-F11

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<210> 14886
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-027-Q1-K1-F12

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<210> 14887
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-027-Q1-K1-D7

 <400> 14887

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gatcattgct ggtgcaagtg catatgctcg gctatatgat tatgaccgta tgcggaagat 360
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<210> 14888

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C12

<400> 14888

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tctcagccta ctactgttgc agctaacgtg agatccatat ttgcatgctt gcttgatcaa 360
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<210> 14889

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C2

<400> 14889

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gacagcgagc gcccgggcct tgggtgacgcc ttacgcgcgg ccgataccag gcagctacgg 180

gcactacgag gtgcaggcca ccgacccctc cgagatgggc ttcgacgtca tcag 414

<210> 14892
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C6

<400> 14892

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cctactacct cctcttcttg caggcgcagg cctccgtccc gccgcggtac gacgggttcg 180
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<210> 14893
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C8

<400> 14893

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ggaaccgttc cagagccctg ctgacgcc 388

<210> 14894
<211> 351
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C9

<400> 14894

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ctgccagcca ttgtagagct ctctgaagat aggcaactgga gagttcggct tgccataatt  180
gagtacatac ctttgttggc cagccagtta ggtgttggtt tttttgatga caagttaagg  240
gcactttgca tgcaatgggt ggaaaataag ggtttctcga tcaaagatgc ttgtgccaat  300
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<210> 14895

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D10

<400> 14895

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ctcctggtat gcaagcatca catgtgctca ctacaactcc gagactccac gaccacactg  180
tttagtgatt tgagagagat tcgagcgcac ttatgaactg tgactctatc gtcctattat  240
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<210> 14896

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D11

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 ttcgtgcagc gggttcggcaa gtgctacaag gacgccgacg agcacgcgta ccggctgtcc 240
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<210> 14897
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-027-Q1-K1-D2

<400> 14897

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 ggctgcagtc accaagttcc tcgatgagct ggctaagatt gacttccctg gagccaaggt 180
 ggtgagcgag gcggtggcca agtcgggcac ctgcgccctg cttccggcga tcaccttcat 240
 cttggacaag gtcgcaccgt ttatccccaa ggaggagccc aaggcggagc cggcggcgga 300
 ggccacctnc cggaagtcg ccgtggagga gaagaaagag gaggccgagc cagctgcagc 360
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<210> 14898
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 14898

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 cttgtgcatg ggcatgtaca gatcatatgt atgatacact aatggagaaa attgcagcat 180
 ctagtcctaa agcaattcac tttctaaaca ataaccacaa gctaaaatgg agtagatcta 240

aattctccaa agaatgcaag gttgattatg tgaacaataa catctcagaa tgcttcaaca 300
attggattaa agattacaaa gatctcccag tcgctgatct aatggataag attagggaga 360
aaattatgga gaagatttat acaaggcang agatagccaa tcgaatggaa aggcgtatcc 420
tac 423

<210> 14899
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D4

<400> 14899

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gtcgtcgtcc gccttcggcg aggcccgct gacgatgcgc aagacggcgg ggaaggccaa 180
gccggcgggc ggcgtccggga gcccgtggta cggccccgac cgcgtgctgt acctgggccc 240
actgtccggc gagccgccga gctacctgac gggcgagttc ccgggcgact acggctggga 300
caccgcgggg ctgtcggcgg acccgagac gtctcgcaag aaccgggagc tggaggtgat 360
ccactccgc tgggccatgc tgggcgcgct cggctgcgtc ttccccg 407

<210> 14900
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D5

<400> 14900

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acggattcca acttctgag ctaaattgag cgactacgca agcactacaa ggacgccaac 180
gagcactcga accaactgtt ccaattcaag gccaacctac gacgcgcacg ccaacaccag 240
atgctgcacc c 251

<210> 14901

<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C10

<400> 14901

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gggatcttgc agcagcttga ctatgggtctg gttgaatgcc aggccctggt tcttgtctcc 180
acccgtgagc ttgcacagca aattgagaaa gttatgcgcg cacttgggtga ctaccttgggt 240
gttaaagtcc atgcatgcgt tggaggaaca tctgttcgtg aggaccaaag gattctcgcc 300
agtgggtgtgc atgttgctgt tggtagacct ggtcgtgtgt ttgacatgct gcgtagacag 360
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cg 422

<210> 14902
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-A5

<400> 14902

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ccaatgaagt cagcgagatc tccatggcta actcccgcca gaacatccgg aagttgggta 180
aggatggggt tatcatcagg aagcctcaga aggttcactc taggtcccgt gcaagaaggg 240
cacatgaggc caagcagaag ggaaggcact ctggatatgg caagcgcagg ggtaccaggg 300
aggctaggct cccaccaaag attctgtgga tgaggaggat gcgtgttctg aggcgcctgc 360
tccgcaagta ccgtgaggcc aagaagatcg acaagcacat gtatcatgac atgtacatga 420
agg 423

<210> 14903
<211> 342
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3060-027-Q1-K1-A6
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 ctgcataagc ggctcgccgc gagcgtcctc aagtgtggga aaggcaaagt ctggcttgac 120
 cccaatgaag tcagcgagat ctccatggct aactccagcc agaacatccg gaagttgatt 180
 aaggatgggt ttatcatcac gaagcctcag aaggttcact ctaggtcccg tgcaagaagg 240
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 gacgctaggc ttcccaccaa gattctgtgg atgaggagga tg 342

<210> 14904
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-A7
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 tcaagttggt acagagtga ctcctcgact tcaacgcaac ccagctgtgt ccagggacct 180
 tgttctatac tgtaacttct acgaagtaat cggctcagat cagagtaacc ataaacagtc 240
 atcttatgga ctatctactc taattatcat ggaggaattt tcttaactcc acttataatc 300
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<210> 14905
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 <400> 14905
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gccagatgta cgatgaaatg attgaatcgg agagcgtcac cgtttgtgtg gattatcaag 120
tcaggcaaat aacggagtac tatgtctgat cgctaaatcg gctgtggtgc atatgtgttg 180
ctctatagcg acgttaggga agggttcctc tctttttcct ttgtatgata gtatgttgct 240
catgatgtag tgtgaaaaga tatatcctat ttgtgtggtg gaacaaataa tgcgtagaat 300
actgattgga atgccttgct ataagggtgct ttatttgtca gaatcccaat ntaattatga 360
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<210> 14906

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-027-Q1-K1-A9

<400> 14906

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ggttgagaaa tggaacgagc agaaggagca tgggacgttt tcaggacctn tctgaatgta 180
ccgaccgaga ccttcagttg gaccagtcaa caagttggcc aggcagtcct actgttccat 240
tctgcattcc tactttcaga atcgtaaattg ctttttgctc cttgctcttt aaccagtcac 300
cacaaaactg ttagtgatgc ctctcgtatg cagctctaata aatttggcta cagttgcccc 360
acatgcagac ttgttttggg tgt 383

<210> 14907

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-027-Q1-K1-B1

<400> 14907

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tggcccttgt cgtagctgct atggtctgtg tcatgtacac cacctcggca caagcaggta 120
aggctgtgtt tggaagtgta gttgcagttt tgaaacaata ctgtagtggt tagtgatact 180

atagtattgt aactcaaaag gtgtttgttt tgtacaggta aaacatagtt ttaaataatta 240
 tggtttacct aaaaccatgg tatttttgga attttcgaaa ctccactcat catcttagtg 300
 ttcttttctt ctctttacaa attactttgt ttttctaata gaaccaaaca gatctcgggt 360
 ttgagtaata ctgtagttnt attacaataa tataataaccg tagtatttat gtcatgtata 420
 attct 425

<210> 14908
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-027-Q1-K1-B10
 <400> 14908

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 gcatgcagcc tgggtggttag cacctcacct cactctagcc tccagcctgc acctacaagg 180
 gccccacagg cagcgccccct gcctggttagc cagccacagt cggctaggcg gtcaacgccc 240
 ttgcccgcgg cccatgccac acaccggcat ccggccagcc actgcttcac tgtgctccag 300
 tagatggtgt gacgccccca tccctcgctc tcgctcttcc tggctctgat ctgatccacc 360
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<210> 14909
 <211> 416
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 <213> Zea mays
 <223> Clone ID: LIB3060-027-Q1-K1-B2
 <400> 14909

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ctacagcatt gaggacgttc gacctgccgg aggcgtgaag aagttccagt ctgctgctta 360
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<210> 14910
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B3

<400> 14910

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 tgcctctggt ggtaatgaag gggacaaatt cgagacatct cttccggatc aagcgttcca 180
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 gtctaaagct ggcaccaagt ctagcaggaa acgttccatg atgtatgaag cttcccatgg 300
 ctacagcatt gacgacactc gacactgccg gaggcgtgaa gaactcccag tcatgctgct 360
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<210> 14911
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B4

<400> 14911

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 cactcattac acacatagct tggacaaata gaacataatg tactaaagga ttctaaagct 180
 agcaccaagt ctaacatgaa acgttccaag atgcatgaat cttctcatgg ctacagcatt 240
 g 241

<210> 14912
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B7

<400> 14912

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gaccggtcat cggcgggctc cggcggcaac tccctcccgt ccgtcggccc cgacgggcag 180
aagcggcgcg tgtgtactt ctacgacctg gatgtgggca actactacta cgggcagggc 240
catccgatga agccgcaccg catccggatg acgcactcgc tgctggcgcg ctacggcctc 300
ctcaaccaga tgcaagtgtg cggccccaac cgggcccgcg accgcgacct ctgccgcttc 360
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<210> 14913

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B8

<400> 14913

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gccctcagc atcagtagcg gccaccaccg acccatcagg ccgccgcccc gacggagctg 180
tggcgccagg cgcgctagtc ctacgacctg actgaggccg agtacggaca cgcgagagg 240
ccgtcccagg ccgcgtat 258

<210> 14914

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B9

<400> 14914

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tacatcatcg cgccacttac cgaccaaaca atgcttctca ccactactct tatagcatat 180

tcaggtctac aacaggcatt tgtatgggcg gtattcacac agagtctcgt aacacccggt 240
cttggcatc 249

<210> 14915
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C1

<400> 14915

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aagcgggttg tggactacgc tgtcaaagtg cgcgtgaggc cggacgggag gggcgtggag 180
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cggctccggg aggccggcgt cgcgctgag gtcgtcgccg ccaccgtagg ccctgcccag 300
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cacgacccgg accctgcgc 379

<210> 14916
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 14916

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ggatgagtgt gatccatact tcgacccggt cggttgcaag catcctggat gcgaacctgc 180
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gaagcatttc agcattgatg cgtacagaat aaattcagat ccacatgaca taatggcaga 300
ggtctacaaa aatggctctg tagaagttgc tttcacagtt tacgaggatt tcgcacacta 360
caaactctga gtgtacaagc acatcaccgg tggcattatg ggtggccatg ccgtcaagtt 420

<210> 14917
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-G4

<400> 14917

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 ctactccatg acaagcccta aaacttattc ctaatcctgc ctaatcacca cgcaacctac 180
 gacatactcc attactgacc cta 203

<210> 14918
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-G6

<400> 14918

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 tgctgcagga caagctgtag aagggtattgc gagacagcca gaagcagaag gtaaaataag 180
 aggtacttta ttgcttagtc tagcttttat ggaagcttta acaatttatg gactggttgt 240
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<210> 14919
 <211> 130
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-G8

<400> 14919

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atccatggcc tccgcttcga ctctgggctg taggatgcat caaacctac cgctccagac 120
ctcccgggtg 130

<210> 14920
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-G9

<400> 14920

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cttttacatg cataacctca tgaatgcatg taccttctct atgtaaatat atgatctagg 120
tatctgataa agtttgaaca cctttatttt ggtttactag ttaatagcac tatttttact 180
ctgggaatgc catggcatgg attattgccca ttcacaaagt ggtcatttat gtacatagct 240
taggtaattt tttcatgaac tatcttggtt ttcagaaggc ctttgaagca acaatattag 300
aacaagtctt catatttaaa ctgcatgtta taggttttca catttctata gggaaaactg 360
gaatatta 368

<210> 14921
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-H10

<400> 14921

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acatgaccgt cggcggcgcc cggcggggcc ggatcgtgat ggagctgtac gccaacgagg 120
tgcccaagac cgcggagaac ttccgcgcgc tgtgcacggg cgagaagggc gtgggcaagt 180
ccgggaagcc gctccactac aagggtcca cttccaccg cgtcatcccc gagttcatgt 240
gccagggcgg cgacttcacc cgcggcaacg gcaccggcgg cgagtccatc tacggcgaga 300
agttccccga cgagaagttc gtgcgcaagc acaccgnccc cgggtgtgctc tccatggcca 360
acgccgggcc caacaccaac ggctcccagt tttcatctg caccgtcgcg accccttg 418

<210> 14922
 <211> 356
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-H11

<400> 14922

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 cggccgtctc taggtcgteg gcgaggaagg cgcccttcgt cgtcagggcc agctccagcc 180
 ctccagccaa gcaaggtgcc gacaggcagc tgtggttcgc gtccaagcag tccctctcct 240
 acctcgatgg cacgctgccc ggcgactatg gcttcgaccc gctgggcctc tcggacccgg 300
 agggcacccg nggcttcate gageccaagt ggctggccta cggcgagggtg atcaac 356

<210> 14923
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-H12

<400> 14923

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 taattgaagc tgcaaaagga acttcgatag atcagcatta cgaggcacag cagtgaaagc 180
 cccatgttta ctttttccac ggcttactcc tcttggcgaa cctccttcac caagagctgc 240
 acatgtagca actgctgttg aaccatggtg gtcattcagg gtggaattgg tccagctggc 300
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 tggtggttca aggtcctggt ccatggtatg gatatgtgat 400

<210> 14924
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-H2

<400> 14924

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ctcgcgggcg cgctgcaggc atgggctcgc ccgccgtctc ccgccggtcg ccgcctcccc 180

ccctcgttct gcgccccga cacctgccc a gctctcacc gtgccgtcga gagcccaggc 240

cagtctcagt ctgacgaacg ccccgcacca cg 272

<210> 14925

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-H5

<400> 14925

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tgcgacgacc gcgaagccga tcgcgctccc gccggcgcca acccgctgcg gctgctgctg 120

ctggaggaca cgcaggcccc cgatccccgc ggaggcgga cgcctcaagg tctccgnctc 180

cgacgggtcg tcggacgtgc cggacttcct ctctgcaat tggcttgaaa cccgcaagag 240

aaagcccttc ggtcccaggt tgaattgtag tgcacaagaa gcagtcgaat accagctaga 300

gtccttaagt acaatgatct gccccgacca gattatggga tagaggcat gtaccggttt 360

gcaggctttg accctttcga gaggtcaact tactttggac gacagtttga tctatgacag 420

ttcgagcgct ttcggcgtct gtttcaccac tcaacctaca 460

<210> 14926

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-H6

<400> 14926

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caggcttcgc cggcaaggca gtgaacgtgc cgtcgtctct ctccggcgag gcccgcgta 120

cgatgcgcaa gacggcggcg aaggcaaagc cggcggcgag ctccggcagc ccggtggtacg 180
 gccccgaccg cgtgctctac ctgngcccg cgtccggcgc gccncgagc tacctgacgg 240
 gcgagttccc gggcgactac ggctgngata ccgcggggct gtcggcggac ccggagacgt 300
 tcgccaagaa ccgggagctg gaagtcaccc actcccgtg ggccatgctg ggcgcggttg 360
 gctgcgtggt cccgg 375

<210> 14927
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-H7
 <400> 14927

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 cgccggctgg ggcgcctagg ctgacccgcc tgtgtccgat gccccacgc gcgccaccgc 120
 gccggcagcc tgctcccgac gcgggaggcc ccggcttcgg cgactccgtg cgtgtgctgc 180
 tcgcgtggc cgggctctac gccgtcatgt cgctcctcga ctaccgcgtc atccacatgc 240
 gccacgtcgc gccgctcggc gccgacgcgc cgcatgaaa cttctccgac ggacgcgtgc 300
 tacatcacct ccgacgcctc gctgttgaca 330

<210> 14928
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-H8
 <400> 14928

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 tgatgaagtt accactcacg atgatgtggg agaaaaacag gccttgggtc cagctgttga 120
 tgcttacacc aatatagacc tatgtatctc aaagacaggg aacaatttac gttcaatgag 180
 ctgttggtt caggatccat ccagagcttc ggaaggcctg aaggcagacc ttatagcagt 240
 tttgagcaga attgaaaacc agctcaagga agaagggtta ggttgggtga atgttttgta 300
 cgttcacctc tacatttcaa gcatgaagga atttggttgc gccaatgaag tttacgttag 360

ctttattac

369

<210> 14929
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-027-Q1-K1-A10

<400> 14929

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ttgctttgtg tgccgtcgga atcgcgaaat ggcaagctct agttctgcac aaggcgcaca 120
ctagacagac cctgagaagg tgaagctcgt caccgtcctg agcatcgacg gtggcggcgt 180
cagagggatc atgcccgccca ccatacctcgc cttactagaa gagaagctgc aagaactgga 240
tggaccggac gctaggatcg acgactactt tgacgtcgtt gccggcacga gcaccggtgg 300
tctcctggcg gcgatgctca cagccactgg cctgcatgac catgacngac gtcgacagcc 360
gctcttcgac gccaaaggatc tggcgcagtt ctacatcgac cactcgccca aaatc 415

<210> 14930
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-027-Q1-K1-A12

<400> 14930

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tcttcattat gccattgtac ttctgctttt ctatttaaac attggtgcat tgcattattat 120
gtagtaggca ctgaaagtaa attccttggc aattggcatt aactgttttc ttcattatgc 180
cattgtactt ctgcttttct atttaactgt ttcatgcagt gaggttggca ccagaagagg 240
agtcacacaa gcttactggg tttgtgcata acgctgtcac ttgcatcggg atggaaacaa 300
acataccggt aatgtaaatt tatatttaca ttgcagctgt tgaagcatgt acattgcana 360
gatactacta ttaggttttag atcacaatta atagatttgt ttgtgacata ccgtgttttt 420
tg 422

<210> 14931
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-G11

 <400> 14931

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 atattctggt ttactatttta atcgcaactat ccataactctt gtaatgccat tgcctcaatt 120
 atttccattc acaacatgat catttacata cataatttaa ctcaattctt tcatgaacta 180
 tattactttt aaaaaagcct ttgaaccaac aatattacaa caaagtcttc atacttaaac 240
 ttca 244

<210> 14932
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-E12

 <400> 14932

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 atggagacgc tggccagcgc catgcggcgc gagaaccgcc ggtccaaggc cccgccctcc 120
 tcctctgctt cctccgccct cgctcgggc agggctcctc tcgtcatggc ctctctctcc 180
 tgcctcgctt ggctctacgt cgccggccgt ttgtggcagg acgcgcagac ccgggcgatc 240
 ctgtccggcc tctcgagaa gagctctacc agcgtcccga aggtgctctc ggtggaggac 300
 aagcttagga accttgggtg caaggcgatt ggaaggaaaa ttgttgaggc ggagatggac 360
 ctgaccaagg ccaagagcga ggggtacctg tgggggaaca ggact 405

<210> 14933
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-E2

 <400> 14933

ggcagacgca gatcggcggc gggataggct agcaatgatc cccaattccg acttcctcta 60
gacgtgcctg gcggtcgaat tccgattcga ttggagtagg gaacgagaag ggaacaaata 120
caccggcacc accaccagac cagacagcac gtgcctccat actatggttt acgccccgtg 180
ccgctcatcg acgcccgcgt cttcctcgcc gatgctccac aagaacctnc gcgccctcgg 240
acccggcttg aatcccttgg ctcccttcgg catgggcaac tactccccgt agccgtttct 300
tcctatcctt tttcttccaa ttccatctct tagtgctttc cgcttcgcc ccgggcgggtt 360
tcttcacggy aaccatccc cggtatTTTA actcccgteg gttcaatggt cccgtgcttt 420
ggatctgaat cttgagaacc ttccc 445

<210> 14934
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-E6

<400> 14934

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gacggtgatg tcgtcgtcgg tgcccccgcc accgccccag caggagctgg agtcgccctc 120
cgccggcggc gacaaggtec tggccgcagc gcagcacatc gtcaagtccc tcgccacctc 180
caagaacgcc gctgacgaca tgatccgcat actctccggc ttcgacaacc gcctctcctc 240
catcaccaac gaccacctct tccccctccc cgaccttacc gncgactccg cctccgagat 300
ctccgccgcc gccgcctcct tcgacgccgc cgaccagctc atccagctct gggacgccac 360
cccggacgcy ctcgtcttcg agggccccga ggacgacatc gcgcagt 407

<210> 14935
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-F10

<400> 14935

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gcttgctctg caccgcegcc tgetcatecca tatcccatgg tgcccagccg agcagcccat 120
ggaggcttcc cagceccage cctctctact gatggccgcc gtccctactc catcttacgg 180
cactgctctc tgctctctcc atggacgagc tgcacctgcc ccccatctcc ttcaccacgc 240
tgctccctgc ctcttggttg gtgcgccata cctctgtctc ctccccaccg tccgcagccc 300
cgacgtcgtc gccgtgttta gtcattggtga ttcttaacce ctttatttta tttcactaat 360
tcttctaata cgagcagatt tttatggatg ttgatat 397

<210> 14936
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-026-Q1-K1-F12
<400> 14936

caccctccag cgcctccacc ttctctgccg cctcactccc tctgaggctg cagatgcgtc 60
cggtagagc aagccgcccc caccatggc ctccggtgag ctgcctgca cctacgccgc 120
cctcatctc agcgacgagc gcatcgccat caccgccgag aagatcgcca ccatcgtaaa 180
ggcgccaac atcaaggctg agtctactg gccggcgctc ttcgctaagc tctggagaaa 240
gcgcagcgtt gaggatctaa ttctctccgt gggatctggt ggtggcgctg ctccagttgc 300
tgcttccgcc ccagctgggg gtgctgcagc tgctgctgcc cctgctgcag aggagaagaa 360
agaagagccc aaggaggagt ctgatgacga catgggcttc agcctgttcg actga 415

<210> 14937
<211> 391
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-026-Q1-K1-F2
<400> 14937

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gaggatgaag ccgacgagat catgcgggct ctgaagcaag tcttcaagac ttccagcggc 120
atgtgaattt gatgcttctt ttacattttg tctttttctt cactgctata taaaataagt 180
tgtgaacagt accgcgggtg tgtatatata tattgcagtg acaaataaaa caggacactg 240

ctaactatac tggatgaatat acgactgtca agattgtatg ctaagtactc cattttctcaa 300
 tgtatcaatg tatatagaag ttaacgtgct tgaggagata aaaaaaaaaa aataaagact 360
 gaaaaaaaaagg gggggccggtt ttaaaggatc c 391

<210> 14938
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-F3
 <400> 14938

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 gcgcggggcgg ggtggaaccc ctagegcgct cgccggctcg gtcgccctct cgcgcgcgcg 120
 tgcgtcgctc cgacagcagc tgcagccatg gcgcagccgc tcgtcgtgaa gaaggacgac 180
 gacctcgacg aggaagagta ctactcgcca ttcttgggca tagagaaggg cgccgtgctg 240
 caggaggccc gcgtcttcca cgacctcag cttgacgctc gtcgatgctg ccagggttatc 300
 accaaaactcc tgtacctgct caaccagggt gacaccttta ccaagggtga agctacagaa 360
 gtcttctttg caacaaccaa gctgggtccag tctaaagatg tgggcc 406

<210> 14939
 <211> 338
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-F5
 <400> 14939

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 tcatcctctc gcgcgcgcgt gcgtcaatcc gacagcagct acagtcattg cgagccgct 120
 cgctcgtgaat aaggacgact acctcgacga ggaagagtac tactcgccat tcctgagcat 180
 agataagggc gccgtgctgc aagaggcccg cgtcttccac gacctcagc ttgacactcg 240
 tcgatgctgc catgttatca ccaaactcct gtacctgctc aaccagggtg ccacctttac 300
 caagggtgag gctacagagg tcttctttgc aacaacca 338

<210> 14940
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-F7

<400> 14940

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cgaggaggca atgtgcaggt agcttgacgt ctgatgaacg ctcagccatg ctgctgatgc 120
tacacgaaac tcttcctttc gtgaggccga gttcttgccg ggacccaaaa ctctccgaga 180
agagtgcctc tgctctccac ggtaaattgg gatgcagtgc ggtctgcagt tcagcggaag 240
gccatcgtgt acagaagcca cacatcggtc acagctacaa agttagcttc actaggacca 300
gccatcatct gtgtaaaagc ttaaacgaga gaactacaag gcactgcctg catcggttcc 360
atgttaatgc ttcgcccgat gacgacgact tccgctcatc gcgtaacata gcgatcagtc 420
tattcaagcg gtacaagaat gtcattgacc gaggaggtgg 460

<210> 14941
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-F8

<400> 14941

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tccccctctg gatctcttcc ctctccgcc tcatccctc tgcattcttt tctgaggtaa 120
gcggaggtgg ggaagaatgg ggcgcctcct caccggagg cggcggcggc aggggtgggg 180
gtgggaacga atggagctcc acctggtcta ccggcctcac caaggaccat ttcgacggat 240
cctcgccctc cgtcggccgt tctgtccctt ccgagtcagc gccgctctct cgtgagcggg 300
cggccattcg cgctatggat gagtgggacg agagggtccg gaaactggac cgtaacaatg 360
tcaaggcaaa ggcgattgtg gatccatgga ccaaccgatt ccggaaaacc ggtcccctgt 420
tgaaccaggt ccggaaccg gcccttcgg 449

<210> 14942
<211> 398

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-G10

 <400> 14942

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 tgcgcctcgc gcaggacata tattcagtga tggaacacaa ggaggccggc tgccagcagc 120
 cggaggggccc aatcctatgc atcaataact gtggtttctt tggaagcgcg gccaccatga 180
 acatgtgctc caagtgccac aaggagatga taatgaagca ggagcaggcc cagttggctg 240
 cctcctccat cgatagcatt gtcaatggcg gtgataatgg gaaaggacct gcaattgctg 300
 caactgtagg tgtggcagtt cctcaagtcg aggagaagac tatcgccgtg cagcctatgc 360
 atgtcgctga aaccagcgag gctgctgctg ntatcgcg 398

<210> 14943
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-C5

 <400> 14943

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 gccggcacca ctgcagcagc caaaccacgt gacacctccc gcgccgctca accccacagc 120
 atccgctgcc accgccgctc acctccccgg cgctcccgcc tacaaccact gcaagcatga 180
 ggcagccaac cagcgcgggc ggcgacgctg ggttcttgcg cgcggaccag atcgacctca 240
 agagcctgga cgagcagctc gagcgccacc tcggacatcc cgcgagcgcg gtagttggcc 300
 cagtctctgg gacagggagc cgnccggcg aaacggccaa gctgggtccg gaagagctga 360
 cgccactgca acg 373

<210> 14944
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-C6

<400> 14944

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gctccgggca acatcttggc ggcaggcggg ctgggtccct tgtggctcgt cgacattgcc 180
aacatgtgcc tcatcctcca cctgatcggg gcataccagg tatacgtca gcctgtcttc 240
gcttcgggtg agagggtggc cgcctcacgg tggccagaag ccaagttcat gagcagcgca 300
tacaccgtgt ccgtcagcat cccctctctg cagagaggat cggtcaccgt cgcgccgcac 360
aagctcgtcc tgaggaccgc catagtcggc gcgacgactg cgggtggcgt ggcgataccc 420
ttcttcaacg ccgtgctggg gctcctcggc gcgttcagct tct 463

<210> 14945

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C8

<400> 14945

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aatgcgggat aagctcatta atcttcgggc tggtgcgcca aatggtgatc ttgtcaagac 120
aggctcccgg tctcgaaaaa atgcagctgg gtatgacctt gtcgtttga tcattgggag 180
tgaatgcact ctgggtgtaa ttacagaagt gactctacga cttcaaaagc ttccatctca 240
ttctgtactt gccatgtgca atttcaaaac aattaatgat gtcctgatg ttgtattgc 300
aacaatgctt tctgggatac aggtttcaag agtgcaattg 340

<210> 14946

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C9

<400> 14946

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atgggaatta tcgtatactt gcttatgaat ttgcaaccat gggttcgctt catgatgttt 120

tacatggaag aaaaggcggt caaggcgcg agcctggccc tgtgcttgac tggatgcaga 180
 ggggtcaaaat tgttattgag gctgcaaaag gtatagaata tctgcatgaa aaggttcagc 240
 cttcaatcat ccatcgggac atcagatcaa gcaatgtact gctgtttgag gatttcaagg 300
 caaaaattgc agacttcaat cttttgaacc aagcaccaga tatggcagct cgtctccatt 360
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<210> 14947
 <211> 316
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-D1

<400> 14947
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 tttctggact gatcccttac catgcgatcc aaaaagcttg cccaagtatg aggcacgcga 180
 tgaattccag actaagaaaa agcgtcagca acagaggcaa gcagaggaag ctgcaaagcg 240
 tcaaaaactt aaccatcctn caccacattc tcgtttgcct tcaactccagc agcctggcca 300
 agcacatnct caaatg 316

<210> 14948
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-D10

<400> 14948
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 gtgctccctc tctcctgcat gcgtgaggtg ccagcggact gaccttcccc atgcagctcc 120
 ttcctctcgc tcccgctcca gcttctctac gctgccgcgc ttcctctcgc cagcgtcgtc 180
 ctagaccggg ctgggcgcgc tcgggtcttg ttggcgcggc ggccggcgacc cctgtggcgc 240
 cagctcactc ccggtgcttc tctccctgct tcaatttttt tccagccatg gtgctcgcgc 300

cggcgtcctc gactcctcag tctggcgcg c tgnttttttt tccatgtccc tgtgcgcgag 360
ctgattcagc ttgtcgggtca tccactggct ctgcggcgctc cttgctc 407

<210> 14949
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D11

<400> 14949

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agaggggtgct gtgctcagcc agaggctcgc ggcgctacgc gagcgccactg cctgtggaca 180
caggagcctc atacatcttg caagaccact gaaacactgg aacattcaca ccctcaagag 240
gttacacttg ataaaacggg ggcgggggtca acgctaataa gtcatacaaaa tgtgtgctgc 300
actgccggag tatcagggga aaacgctgaa atcatggaaa tcaccttatt gcatgatgaa 360
tctgatg 367

<210> 14950
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D12

<400> 14950

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tacggcactc ccaggctactg gatgcagacg ctgttacgcg agtctagtgg tgctatgttc 180
catgcaacga caatcagctc cagctactca gggtcacttg cagcgtctgc gattacctgg 240
caggactgcg agaacagctt cctaagagta aaggctcataa acttcgggtc agatgctgtg 300
accctgacaa tctgcacaag tgggctccag gccagtatca acgctctggg atcaaccgcc 360
actgttctca catcagcaga tgtgatggat gataactcct tcagcaaccc aaccaagttg 420
t 421

<210> 14951
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D2

<400> 14951

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 ctccccggct cgaaagagtg cagctgggta tgaccttgct cgtttgatca ttgcgagtga 180
 aggaactttg ggtgtaatta cagaagtgaac tttacgactg caaaagcttc catctcattc 240
 tgtagttgca atgtgcaatt tcaaaacaat taacgatgct gctgatgttg ctattgcaac 300
 attgctttct ggaatacagg tttcaaaagt ggaatggttg gacaagggtc aaataaaggc 360
 attaattttg gcaaattggca aaatttggcc tgaagggcca acctggaggt t 411

<210> 14952
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D3

<400> 14952

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 ttgtgtctcc gcgctcgctc gctcgcgctt ttctgctgc tccacctccg ccccgctccc 180
 atcgccgat cggtcggagg ccgctcgtc gcttgagaga tgcctcttgt tgacggcagc 240
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 gaagggggac gga 313

<210> 14953
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D4

<400> 14953

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gggtggaagt acttaaatacg ggactcgggc taggaacagg tgatgttcta cctaggttga 120

ttaaggattg aatgcgtatg taggcgtgct gatcgaggac cctttaactg gtcacatgcc 180

tcgtcatggg taagccttgc ctcatgcaga ctaaggccag aataagataa cacggaatgg 240

gcgtggagcg gtggcgagag tagcgtgtac cctccgtggc aagaggctgg acggtgatgt 300

atct 304

<210> 14954

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D5

<400> 14954

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attgccatcg gcatggttcc tgtcctgaaa gattttgttt tcggggctga tgcgccgctc 120

tcgttcttca ccgacagttt ggagatccta gccgctgctg tggttccgtc ggtgatgttg 180

attctcggag gcatgctcgc ggaaggccca aaagacaacg ccttgggcat gaggactatc 240

atcggtatca ttgtggccag gctcttggtt ctcccatgca ttggcatcgg tgttgatgacc 300

ctggcagaca cgttgcatct ggttctggga ggaaaaccat atggaccggt ttgggctttt 360

cctgcagtac tcccaccga gtgctatcct gcttggagcg atcgccagtc tcagaggcta 420

tggcgtcaag gaagcatccg cccttctggt ctggcagcat a 461

<210> 14955

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D8

<400> 14955

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aagaggctga aagggcggcg gagagagaaa ggctataaga gcgagctggg tccttcgagg 120

atgccatcaa gaaaccgcgt ggaggggagg gcgatgagat gagggatgct ggccgcggtg 180
atggactact ttagctcctg ctggggcccg cgatcgggtg ccgggcaccg ggaaaagggc 240
tccgacgccg ctggccggca ggacggtctc ctctggtaca aggacgtcgg gcagctcgtc 300
actggggagt tctccatggc cgtggtgcag gcccaaccagc tgctcgagga ccagagccaa 360
gtggagtcgg gatcgctctc cctggctgac acgggcccgc agggcacctt cgtcggcgtc 420
tatgat 426

<210> 14956
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-E10

<400> 14956
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ctccccgccg tcgagtcgga ggtcgccgcc tcgtccgcc aggaccgcgc caaggacatc 120
ctcgtcgtcg tctccggcct cctcttcggc ttcggtgct gcgccctcac cgtcgcgtcc 180
atgtacctcg tatggtcgt cctcgcttc acctgcgct ccggatacga cgacgacgtc 240
tacagcgacg acgaggaccg gctgttcgac tccgagagcc ccaagaaggc cggctacgtc 300
atcatccacg acgctgacga gtacggcgcc ggtaagaact agggctgggg atccgtcttc 360
ggtctcgccg gcgggtcagc agaaggattt tcgtaataac atttgcataa ttgcttgga 420
ttg 423

<210> 14957
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C4

<400> 14957
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cccagtcgg ttctctctcc tctctcttgc cccgccctc gccggcgct ggggaaagga 120
gggccacatc atggtctgca agatcgccga gaagtacctg tcggagaagg cggcggcgcc 180

ggtgcaggcg ctgctgccgg agtcggcggg cggtagagctg tcgacgggtgt gcccgtgggc 240
 ggaccatgtg cgctggcact accactgggc cagcccgtct cactacgcca acacccccca 300
 agtctgcaac ttcaagtatt ctcgggactg ccacaattct cgtggccagc aagggaatgt 360
 gcgtcgtcgg ggctatcaac aactacac 388

<210> 14958
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-A6

<400> 14958

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 gatgcatcga tcgctagcta gctgactgac catggcgctc atgtgctctg ccgccatcac 120
 cgcccgttcc ttcaaggccg ggcccgctcg tgcagtggtc accacgaggt cctttaccgc 180
 gcgtgcctct ctacgcaagg ccaactgccac cgccgctacg gccgatgccg acagcgtact 240
 gcttgccggt cgcggcgcca tggcccagga ggagctgctg ggcagcaacg acggctgact 300
 agtcttcgag c 311

<210> 14959
 <211> 468
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-A7

<400> 14959

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 cgcgattcgg gcagatttgg tccaacaatt ctttgtttgg ccgcttgggc tccggtctct 120
 cgattcttcg tagcttggtg ggagggcgcc ggatccagcg gccatcatgg ttgtcgacac 180
 ggtcagcgcg agcacctcca taatagcccc ccacctgttc gaccacaggt ccaggggcgc 240
 cggcgcttcc caccaccacc tccgccggac gttccatgtc gtcgcctgcc gacacctgcc 300
 caccgncttc gccggccgnc gcctcgtggc ccgggtcacg aggcagccgt cgtcgcgcct 360

cgccgattgg ccggtcaggg cgctggctat gggggtcacg aaggagggtca gggccagccc 420
tcgcaggggag taccggggga tccccggnga tggtagcgac atggggga 468

<210> 14960
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-A8

<400> 14960

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caggctccag acgcagtcgg ccgccgcaga ccgggagtag ccgacgcgcc gtcactgaat 120
cctcagatca cggctagccg taatcacgac actctgctga ctccccggca gcagtgtaac 180
attttccttc agccatgggc aaggagaaga ctcacatcaa cattgtggtc attggacatg 240
tcgactctgg caagtcgacc accactggcc acctgatcta caagctcggc ggtattgaca 300
agcgtgtgat tgagaggttc gagaaagagg ccgcggagat gaacaagcgg tcattcaagt 360
atgcctgggt gcttgacaag ctcaa 385

<210> 14961
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-A9

<400> 14961

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gagaaactac atacatgcta gcgaggttat tttatccatc ctgctggaca aggacaggag 120
cagctcgaca atcctctcgc tgaaaaaggc tggctctgag atcactgaac ttttaacgca 180
atgctctatc ggcattgctg gaactggact ggctattctc ctgtcagtta tgtgcaagat 240
gtctaattggc atgaggactc cttttgcttc tgccccactg cttagcacca gcgtcggatt 300
cggactcttc tggctatcct gggcagtcga tggattgcgt gacaccatcg ncagcathtt 360
cagaagccga aagtgcataa atatcgagga tga 393

<210> 14962
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-B1

<400> 14962

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gttgatcggg aacggggccag tgggtgtacct caacaagggtg accgatgggt gcgtcggccg 120
cgtcgccgcc aagctcgagt ccatggagcc ctgctccagc gtcaaggata ggattggcta 180
cagcatgatk acggacgcag aggagaaagg gctgattact ccaggcgtga gtgttctgat 240
tgaaccaact agcggcaaca caggcattgg actggccttt atggctgctg ccaaaggctt 300
acaacttaca cttacaatgc ctggcttcat taaccttgag aagaagatca tattgaaagg 360
ttttggggc 369

<210> 14963
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-B10

<400> 14963

accaaggaga gtacgtggag gagcagccat ggcttcatcg gtggccgccg cggcgagcac 60
attcctgggc accgcctgg cggacccggc gccacagaac gggcgcatcg tggcccgggtt 120
cgggttcggg ttgggcggca aggcgaagcc tgctccgaag aaggtggcga agacatcgac 180
ctcctctgac cggccgctgt ggttccccgg cgccgtggcg cccgactacc tggacggctc 240
gctggtcggc gactacgggt tcgaccggtt cggctctcggg aagcccgtgg agtacctgca 300
gttcgagttg gactcgttg accagaacct ggccaagaat gaggccggcg gcatcatcgg 360
cacccggttc gagtccttcg aagtcaagtc caccctgttg cagccctaca gcgaggtggt 420
cggc 424

<210> 14964
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-B12

<400> 14964

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ggccaagctc aaacaacaat gtggggggaca ggttacttca aaaatggaag gcatgggtac 120
tgaccttact gtcgctagag atcatcaaac taagtttgag gagtttgtag ctggacatcc 180
agagttgaat cctgggatag acttagctgt tactgttttg acaacgggat tctggccaag 240
ctacaaaact tttgacataa accttctctgc cgagatgggtg aaatgtgtag aggttttcaa 300
ggagttctat caaacaagaa caaagcacag gaagctgaca tggatttatt ccttggaac 360
ctgcaacatc aatgctaagt ttgatgctaa acctattgaa cttatttnnt acacatatc 419

<210> 14965
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-B4

<400> 14965

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tgagcgatgg cggcccaggc tctcctctcc ggccggcagc tgctgggccc ccccgatgag 120
tcggccgtct ctaggtcgtc ggcgaggaag gcgcccttcg tcgtcagggc cagctccagc 180
cctccagcca agcaaggtgc cgacaggcag ctgtggttcg cgtccaagca gtccctctcc 240
tacctcgatg gcacgtgcc cggcgactat ggcttcgacc cgctgggcct ctcggacccg 300
gaaggcaccg ggggcttcat cgagcccaag tggctggcct atgggcaggt gatcaacggc 360
cggtacgcca tgctgggcgc ggtgggcgcc atcggcc 397

<210> 14966
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-B6

<400> 14966

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 ctgaggcgat gggcgcccag gctctcctgt ccggcctgca actgctgtgc cgccccgtgc 120
 agtcggccgt ctctaggtcg tcagctagga aggcgcctt cgtcgtcagg gccagctcca 180
 gccctccagc caagcaaggt gccgacaggc agctgtggtt cgcgtccaag cagtccctct 240
 cctacctcga tggcacactg cccggcgact atggcttcga cccgctgggc ctctctgacc 300
 cggacggcac ctatggcttc atctagccca tgtgactggc ctatggctag gtgatcaa 358

<210> 14967
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-B7

<400> 14967

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 ccccggcgga ggtgaccccg cggagctggt gctcgacgcc ggcttcgtcg tgccggacgc 120
 caacgccttc ggcaatacct tcagggacta cgacgcggag tcggagcgga agcagacggt 180
 agaggagttc taccgggtga accacgtgag gcagacgcac gagttcgtgg cgcggatgcy 240
 ggcggagtac gggcggttgg acaagacgga gatgggcatc tgggagtga tcgagctgct 300
 gaacgagttc atcgacgaca gcgacccgga cctggacatg ccccgatcg agcacctgct 360
 gcagaccgcc gaggccatcc gcaaggacta ccccgacgag gactggctcc accttaccgg 420
 actcatccac gacctgggca aggtgctg 448

<210> 14968
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C10

<400> 14968

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 ggaccttccc tagcggcggc gcctaccaac ctcaaggagc gatggctctg tctgcgacgc 120
 tacggatttc tcttagcgtc gcgttctttg gggttctggc gttcgtgctt ggtgtcatcg 180

ccgaaaacaa aaagcctgct tccgggactc ctatcctagg aaaggatgtc gtcattctgca 240
 cgtttccaag tgatccgact cttgcgatgg ggagcctgtc cattgtggca cttgtggtag 300
 ctgccatcgt aggccatggt gccatcttct ttccatactc gggcaagtca gttcctcgtg 360
 gagcgctggt tcaaagcacc agcttgacag tgttctttgg tgttgctg 408

<210> 14969

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-A5

<400> 14969

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 catagggggg gactggcaat gagtgaaccc aactctggct ctgatgttgt cagtatgaag 120
 tgcaaagctg agaaagtgga cggcggctat gtccttaatg ggaataagat gtggtgcacc 180
 aatgggccgt ctgctcagac gctggttggt tatgcaaaaa cagatctaac tgccgggatca 240
 aaaggaataa ctgcattcat aatcgagaaa gggatgccg ggttcagtac tgctcagaaa 300
 ttggacaaac ttggcatgat aggaagcgac acatgtgaac ttgtttttga gaactgcttt 360
 gtgccacgcy agaatgtcct cggtgaaaaa ggcaaaggty tttatgtcat gatgtcaggg 420
 cttgatctgg aaaggct 437

<210> 14970

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H12

<400> 14970

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 ggagcacggc tacttcacgc gttcgcagcg acgcgcgggt gtgatggatc ccaatgtcct 120
 gttcatcgtt gatgagatgg agaagtttgc atctatggat gtcaagtggg agaagcgctt 180
 gtcggagctg gtggcagcta aggaggagcg cctgatctcc ctcgagcgcg tcagcgggga 240
 gttggaagca tggtagccca cgggtgatgt agcgatggat gataccaagt tgcagctccg 300

caaggtgaat ctgcagttgg atcatgccgt tctggaggcg gctggcggag attctagtct 360
gttggggaaa ccggat 376

<210> 14971
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H2

<400> 14971

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gttcgatcgt gaccgtgacg caggaagcta taagctagcc aagacaggaa taataatggc 120
ggcgtcgacg gtggcgagcc tctctgtccc ggtgacgacg acgaccttcg cggcggcggg 180
cggcggcgac gtgctgatcg tcgtcccgag gagggcgggc gccaaagcgcg tcgtctgggt 240
ccccgcggcg gcgcgcgcgc ggcgcggggc ggtggtcgcc gtgcgggtcca gcgggccggc 300
cacgccgcgc gagatctccg acaaggtgtc ggagagcatc aagcatgcgc aggagacgtg 360
cgcggaacgac cagaatggcg ac 382

<210> 14972
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H3

<400> 14972

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ttgccaatct gctccttctt ctagctagat cttggatgga gctggggatg acgatggagg 120
tagcgaagat catcgaggta tgtagagtac gcggctgcta gttagttcac caggccagca 180
agcgagctcc agcttcgtcc gatcgataga tgcgagctgt agcagcgtgg cagccattca 240
tcagttgtca gatcttagat tcccccatc cccgtacta gttggtggtt agcaaattccc 300
accaagcagg aagcagccgc gagcgagcca tggccatgga tcccgttctg aaagtggccc 360
tggtgctcgc ggcgttcgcc gtgttctggg tgctggcggt gttcccggcg gtgccgttcc 420
tgcccatcgc gcgcacg 437

<210> 14973
 <211> 447
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-025-Q1-K1-H4

<400> 14973

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 cgtcatcgtc cgctctgacc gagtccgcgc tgcggcaaag cggcggcgaa gacgaagacg 120
 ccgagctcga cgaggcggtcc accaccacca ccaccacggc aagccagcgt caacaccaag 180
 acgacgacca ccaccagcag cagcaggagt gctacgcctc ggactacttc tggaacgaca 240
 tcgcgggcgc ggaggcggcc atctacatgt tgatcgacgg cggttggaca ggaggggtccg 300
 gccccggcca tcccgccgcc gagccgcctt cgtcgccggc gtgggagtac tgctctgatt 360
 actcgctctg gaggatcgac gacgacgagt acttcgagaa gatgctcgna ctctncttct 420
 gattcaatta tccagccatc acacgcc 447

<210> 14974
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H7

<400> 14974

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 catccacaag atcgaggaga agctccacat ggggggagac cacaagaata aggaggagga 120
 gcaccacaag aaggccgagg agcaccacaa gaaggaggag ggggagcacc acaagaagga 180
 cggcggggag cacaaggaag gcatcggtga gaagatcaag gacaagatca ccggcgagca 240
 cggcgacaag tccggcgacc acaaggagaa gaaggacaag aagaagaaag gatagaagaa 300
 gcacggggag ggccacgacc acgacggggg gcacagtagc agcagcagcg acagcgactg 360
 agatctggtg tcgcagcaca ggtgcaacac aagtatgctt gcttgatgga ggattcatac 420
 cagctgatg 429

<210> 14975
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H8

<400> 14975

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 ttttgtttca aatatgccag gagatgttcc ccgagtatgt ggtcagttgg ctgtctccag 120
 agctttttgga gacaggaatc taaaatcact attgagatca gagcctgata taaaagtcga 180
 agacatagat cacactgccg agctacttgt tcttgcgagt gacggtcttt ggaaggtgat 240
 gaacaatcaa gaggttgctg atttggtcaa aaggtacaag gatccctatg ctgctgcaa 300
 gcaattaacc gtcgaagcac aaaaaagaga tagtaaggat gatatatcat gcatcgttgt 360
 tcggttcaag gtgtaaatcg gtctcgaaag attttcatcg agagcaaaaa ccagtgaata 420
 ggctgcctga cgatggtagt 440

<210> 14976
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-025-Q1-K1-H9

<400> 14976

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 ctccgcccct tcccggtctt cgccagcag ccaccgcggt cagcggcact ccagggccgc 120
 caccgtcaga tgttccagca cgtcgcccaa cgtgtcccag ggcgcgccgg cgccggcgcc 180
 gcccagccg caaatcgagc tcgagttcgt cgggccgaag cccggtgccg acggctcctt 240
 cccggtggac cgggcgagg cgaccagcgg cgagaagctc ctccgtgacg tcatgaacga 300
 gaacaagatc gagctctacg ccgcatacgg caaggtgatg aactgcggtg gcngcggaag 360
 ttgcggcact tgcacgtcg agataatcga tggaaaggag cttctgaatg 410

<210> 14977
 <211> 407
 <212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-A10

<400> 14977

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gagcccccat ccgcattgcg tttttcgggc gcgttcaggc gggacgcatg atgcgctgct 120

agcgtgttca ggccttcaaa acgcagcaca caccgggtccg ttgcttgccg gccaccgct 180

ggcggcgcg gcgctctctc ccaccgcgta tctttccggt tggatccccg agtcggagct 240

cgatcagatc ggtgcctctg cctgcgtgcg tctgctctgg tctactatat atgaccacgg 300

gcgcgggctg acgtccatc gccacacgt cgaagcangt gattggcgat ccttgtccgt 360

cctcgctcgc tagctgatcg acatggccga cgacgacca agaacga 407

<210> 14978
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-A11

<400> 14978

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gacggggggc tcaactctcc acactctcag tcgtcttcca gtcccagcgc tttcttgat 120

cgcgaggaaa ccaactcgggg agtttgcagt tgcagagaac tgtatcggcc gaagtgggtg 180

cacggtgtgt tggccttggc catgcgccac ggcagggaac agagacgagc agcagggagg 240

cagcaatgga ggcgctcatt gaccctgctc tcgctgtaaa gatagtcccc cggtgccctc 300

cgaattccac ttgatccaac tctcgacatg aagcggccac gcggcgctac tccctccctg 360

tctgcgatgc ccaatcatca ggaagatgac ggctacggcg tggt 404

<210> 14979
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-A3

<400> 14979

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tggccgcgat tggggagaag gaggggtagt tctacgtgcc gagggaccgc aagtaccgca 120

acggcgacag gccaaccgg gtgacggcgt cgggctactg gaaggccacg ggcgccgacc 180

gcaccatcaa ggcggacaac agccgnccca tcgggctcaa gaagacgctc gtcttctact 240

ccggcaaggc gccaagggc gtnccgagca gctggatcat gaacgagtac cgcctcccgc 300

ccgacgacac cgaccgttac cacaagaccg aaatatacctt ttgccgcgtg tacaagcgca 360

ccggtatcga caacggcggc cacgggcac 390

<210> 14980

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-A4

<400> 14980

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ggagcttgcg gagcaaatcc agagtgaatt tgctatgaag atatcaaatt atgcaaacat 120

tgttctctta gcgttgaagg tatacgctac aataaaaagt ggatcaattg ctatagctgc 180

ctcaacactg gattcactgc ttgatctcat ggctggtggt atcctttggt tcacacatct 240

gtcaatgaag agcatcaatg tctacaagta cccattggc aaactgaggg tacagcctgt 300

aggcattatc atcttcgctg ctgtcatggc cacttttaggc tttcaaagta tntattcaag 360

ctgttgaaaa agctggtaag tgaatgaggc ttcagaataa ctgaacccaaa gtgcaaataa 420

tggtggctat attccaatca tgatc 445

<210> 14981

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-025-Q1-K1-H11

<400> 14981

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ggcagctgct gggccgcccc gtgcagtcgg ccgtctctag gtcgtcggcg aggaaggcgc 120
ccttcgtcgt cagggccagc tccagccctc cagccaagca aggtgccgac aggcagctgt 180
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tcgacccgct gggcctctcg gaccggagg gcaccggggg cttcatcgag cccaagtggc 300
tggcctacgg cgaggtgatc aacggccgct acgccatgcn tggcgcggtg ggcgccatcg 360
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<210> 14982
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-F3

<400> 14982

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gctcatggcc aacatgtcta cgctatcgga tcgtgaagaa tacaaggagc ttgtggagaa 180
ggacccaagg cttgttgtgg agatttatga agcatatctc aaccggcaag tcaacactgc 240
agctgggaag gacacaaatt gtagcaacag gaagtataa ttacgaacag aactcgtgca 300
gtaacaatat tctaactatg catttatgca ttcat 335

<210> 14983
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-F4

<400> 14983

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<210> 14984
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-025-Q1-K1-F5
 <400> 14984

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 ggcactctct gagatcattg gtacactttg tatacttttc acactatcaa ctgagctagc 180
 tccagttctt gggtctcetta tgggtgtcgt ctccgtgcta gttgctatTT tcaagaggtc 240
 aactgttccc actttttaaT cttatggaat cgtgcaagca cgcataatcag actgtgcatc 300
 aaagacattt tcagctattc gtactgttcg atcatttggT ggtgaaaaac gacaaaatttc 360
 tttgtttgac aatttggcac atgcttacca aaataatggc acaaaacttg g 411

<210> 14985
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-025-Q1-K1-F7
 <400> 14985

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 gctctgtata tttaaccaat cctcagctct catcttccaa aagttctcac ctgcgccgac 120
 ggtcaccggt cggtcaccat gatctcacgg ccgctatgcg cgctgagaga gaaaaatcga 180
 gtggaggaga gagaaaattg ggggctgcat gagttcatcc gaagccgatc cttggaccct 240
 gctataccta ttgcttagct tccgcggctg tacaccatcg agcgccaaga gcaccgtgcc 300
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ctcggcgcgga ggacacgtgt catctgnaaa gcaagt

396

<210> 14986
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G1

<400> 14986

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ccgtcacggc gctccccagg aatgggcagc gggcgtcgtc ctcttctctc ggcggaaga 120
cgctgctgag acaggccgag ggggcccggc cgctgttcgc cgtgcgcgcc gcggcgacc 180
ccaacaggcc gatctgggtc cccggcagca cccctccgcc gtggctcgac ggcagccttc 240
ccggcgactt cggctttgat ccctggggcc tcggatctga cccggagagc ctgcggtgga 300
acgtgcaggc ggagctggtg cactgccggt gggcgatgct cggcgcggcg ggcattctca 360
tcccggagtt cctgaccaag atcggcgctc tcaacacgcc cttctggtac ac 412

<210> 14987
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G10

<400> 14987

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tcggagaagc ctccccaaagc ttccaatcgc tatgcagccc gtcaaggtgt acgccgaccg 120
gcggtcgcaa ccctcccagc ctgtcatcat cttctgcagg gtgaaccaga tcgatttcga 180
ggaggtcacg gtggatctgt tcaagtctca gcacctcaca cccgaattca aaaaaataaa 240
cccaatggga caggtaacctg caattgttga tggaagattc aaactatttg aaagtcatgc 300
gattttgagg tatcttgcac cggttttccc tggagtagct gaccactggt atccttctga 360
cttggtcacc agagccaaaa ttgagtcaat cttggattgg catcactc 408

<210> 14988
<211> 424
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G11

<400> 14988

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gcttgattgg gtgtcatctc ttttagctgc aactgcagct ggctgtgatc atggcatcgc 120

tgagtgctga cctcttttac gacatactca agcgtctcga tgctgcagct ctggcaagag 180

caggctgtgc ctgcgctgat tttcgtgccca tatcaaatga agaggatctg tgggaaaatg 240

cctgcacatc tctgtggcca tcaatgagac gagatgacgt taggagctta attgcctctg 300

ctggtggggtt caggaagtcc tatgcggatt gtttcacact tatactgaac aaggacgtcc 360

ctgtggttca agccaatgaa actaacttct ttgccgaaga atgggctgag tctgactact 420

acta 424

<210> 14989

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G12

<400> 14989

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tccagttcgc acaaatgttg aagatgcagg cttctcatct acgaaaaggc tgtctgagaa 120

gcccacagtc gtaaacggag aagaggatcg tgaccattgt catcaggagt catctaagga 180

accgagttgc ggagttgagc aggatgggtca aggttactca tgcgatgaag aggctgtgaa 240

aaagccagtt tgtatggata gccacgatgc ccaaagttca gatattctctg ctgccactat 300

tgcttctggg ggaa 314

<210> 14990

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G2

<400> 14990

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 attcaatgag caaggggaac tcagcaagta tgtgaatggt aaatttccat caagactatg 180
 ctccctggga cttacttaca tgggaacaaa tgaaatgccc attatgttcc ctttttctgc 240
 aatactaaag aagctggatt tgcaatacac tttcctcacc actgaggacc attgccagct 300
 cattgcaaaa tgcccgaact tactagttct cgcggtgagg aatgtgattg gagatagagg 360
 attaggagtt gttgcggata cgtgcaagaa g 391

<210> 14991

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G3

<400> 14991

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 aatagtgggg ctgttggttac aattcaggag agtttgggta gtcctgatga tattactggt 120
 gaaataaagg ggacatcttc acaggtgcaa gctgcacagc agctcatcca ggactcggtg 180
 gctgcacacc gagaacctgt caggagcagt tatgtggggg caggattaga ttcagtatat 240
 aggtccagct actcacaata tggcagctca atctatccct cgatcatcact gccgtcttat 300
 tctagcatcg atgatgttag tagatacccg tcttcaggcc ttggtggcta tggttcgagt 360
 taccggtact aatagcaatt tgtcctcggg cttgaatgct tgatggcacc agtgatcatt 420
 gtatccc 427

<210> 14992

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-025-Q1-K1-G5

<400> 14992

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 acacatgatg agactggagt agaggccgaa ggtaggagcc gacgggttga aatccccccc 120

gcagtcgcag cgctcgtgatg gtacgaatgt tgcggctgga gtagagaccg gtgtgtgctc 180
gaagaagacg atagccccta gatgccgagg tagccgaagt cgagggtggc gcggtcggaa 240
gacgcgcagc aaaagcctga tcttcgggag ggctgcagctt cgagcgtcaa cgatcagcag 300
ggcgacacaa caaaagagca ccggcaggcc gaccttcctg cttcttcgat cgtccaggcg 360
tcaaggagcc ccgccaggga ggccgacggc agcgcacgca tctacgccg tcanggtgtc 420
cgcgcccgtt g 431

<210> 14993
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G6

<400> 14993

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gtgccgcgc cttccctgca atcgccgtcg cggcgcgcc cctgcgccc cgccgcgcgc 180
cgaggccggt ggcgccccg gccggggcg aggagcgga gacgatactg ctccccgggt 240
gcgactacaa cactggctg atcgatcatg agttcccaa ggaccccgcg cccaccgcgc 300
agcagatgat cgacacctac ctcaacacac tcgccaccgt cctcggcagc atggaggaag 360
ccaagaagaa catgtacgca ttcagcacga ccacctaca 399

<210> 14994
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G9

<400> 14994

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cagggacgcg cgcccgctgc acaactgcct gtaccgcgcc gtggacatct acctcaagac 120
acacccgggg ctggacgaga tcgagcgga gaaggtgtgc agcgtcatgg acccgctcag 180
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gctcagcgtg ctctactacg accagctgaa gatccgtagc gcggacggca gcggcgggcac 300
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<210> 14995
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-F2

<400> 14995

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 atttaaaaag catgcaaag gctcgttta cagaattctt aacatgctac gggtatggcg 180
 ccttcgtcgc ctcaagtatc tatttgccag actagaaaag gatattaggt tggactacta 240
 ctggataagg tgcataaac taatatctgt tactcttttt acagtacatt gttcaggatg 300
 tttcaattac ctgatagctg atagataccc caatccagca agaacctgga taggagcagc 360
 aagaccagac tacagatcag agagcctatg gggtcgatat gttacatcga tttattggtc 420
 tattacaaca c 431

<210> 14996
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-025-Q1-K1-D7

<400> 14996

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 cttcgcgggc tcccggctcc cgccgcccac gcggaccaca ccggcgctcc tcgtggtggc 180
 caccggcccc cgccgcccgc gcgccccgcc catctgcgcg tccatgtcca tgcctcctc 240
 caaccgccc tacgacctga cgtccttccg gttcagcccc atcaaggagt ccatcgtgtc 300

ccgcgagatg acccgteget acatgacgga catgatcacc tacgccgaca ccgacgtcgt 360
catcgtgggc gccggctccg cggngctgtc ctgcgcgt 398

<210> 14997
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D8

<400> 14997

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cacaagtctt cttcacaagt ttaggagtga cagcaacaag agatctcgat ggctctctgcc 180
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ctcgtgaaga ccgcgaaaac gatcgcgtcg ccggggcggg gcctcctggc gatggacgag 360
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<210> 14998
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-025-Q1-K1-D9

<400> 14998

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caatggagac gcaagtggcg gctccgccac accaccacca gcagcagcag cagaaggcgg 120
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<210> 14999
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-E11

 <400> 14999

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 gcaaggagaa gactcacatc aacattgtgg tcattggaca tgtcgactct ggcaagtcga 180
 ccaccactgg ccacctgacg tacaagctcg gcggtattga caagcgtgtg attgagaggt 240
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 agtcaaagc cgagcgtgag agaggtatca caattgatat tgctttgtgg aagttcgaga 360
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<210> 15000
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 15000

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<210> 15001
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E3

<400> 15001

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<210> 15002

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E4

<400> 15002

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tggtggtggg gtcgggtgag tctagctccg tcgcttgccg cggaagaact tgtcgggagc 180
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<210> 15003

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E8

<400> 15003

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aaaattcttg actggtgcat cggccatggg aagccttgct attccagcaa ttctgaggca 300

Jc675 U.S. PTO
09/394745
09/15/99

tgctggctta atcgagaccg gggccatgtt catcgagttc acgtccttct tcatccttgt 360
 atgcacagtg ctgtgcttcc atagggcgac tctggatgaa gacttgtaa tgcgcatttt 420
 accgacaccc tg 432

<210> 15004
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E9

<400> 15004

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 agggcatccc ccagaccag cagcggetca tcttcgctgg caaacagctt gaggacgggc 180
 gcacgcttgc tgactacaac atccagaagg agagcacctt ccaccttgtg ctccgcctca 240
 ggggaagcat gcagatcttc gtgaagacct tgaccggcaa gactatcacc ctcgaggtgg 300
 agtcctgcga caccattgac aacgtcaagg ccaagaacca ggacaaggaa ggcattccctc 360
 cagaccagca gcggtcatc tttgcttggg agcagcttga ggacgggcgc acgct 415

<210> 15005
 <211> 300
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-025-Q1-K1-F1

<400> 15005

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 cgccgccagg atcacgtgct ccctccagtc cgacgtcagg gacgtcgcca gcaagtgcgt 180
 cgacgccgnc aagctcgccg gcttcgcgct cgccacctcg gctctcctcg tctcgggcgc 240
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<210> 15006
 <211> 411

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-F12

 <400> 15006

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 cgccccgtgc agtcggccgt ctctaggtcg tcggcgagga aggcgccctt cgctcgtcagg 180
 gccagctcca gccctccagc caagcaaggt gccgacaggc agctgtgggt cgcgctccaag 240
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 ctctcggacc cggagggcac cgggggcttc atcgagccca agtggctggc ctatggcgag 360
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<210> 15007
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-D5

 <400> 15007

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 gggcccggct tagtgacatt tgggcctgat cgagtaacag aattctgtaa acgaaacaaa 180
 ttgcagttga tcataagagc ccatgagtgt gttatggatg ggtttgagcg tttcgctcat 240
 ggacaattga tcactttatt ttcagcaaca aattactgtg gtactgcaa caacgcaggg 300
 gccatacttg ttgtcggcag gggcttagtt atcgtgccaa agttaattca tccacttcca 360
 cctcctgtta attcacctga gtcctcccc gaacgtgggg atgccacatg gatgcaggaa 420
 cttaacatt 429

<210> 15008
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3060-025-Q1-K1-C1

<400> 15008

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tatcaagcat ctggatgctg ctctctctgt ttggtacctc tgcagttctt gttcctactc 180
tgtacactct gagcatcgcg ttccggggatg tggttggggc aaggcacctt ctgtacggtg 240
aaaagtccct cgatgcggta acaagagtta acgacttgge tttggttgga ttgggggtatc 300
tggttggtta tcccatcgca tctgcgtccg ttggcgcgct gcaaggctta ttgtcaaaca 360
atgtggttgc cctaaaaggg tctgcccaca attgtggcga gcangtattt gcattttgtc 420
aagatgg 427

<210> 15009

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C10

<400> 15009

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gctgtcgcac tggatgaagca gcaacgctcg gcttccccta gcctccaacc cttccgctcg 120
ctttctcttc tctctaattt ccagcacatg ccagctcctt ctccacgcca cgcgactgca 180
gaccgaggag cagtcgcgcg caggtgaagg caaggagtcc atctcccgcg acatgctcca 240
ggccagcggc gtgggtctgg ccgtggtggt cagcacggtg gctatccggc catgtggaga 300
cgagcgggtg tgagcagggc atccttccat tgatttcttc cctcggtctc ctccttgctt 360
cactctctcc ctcagatttg tctgcgcgca gtcgtgggtt cct 403

<210> 15010

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C11

<400> 15010

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ggctcgaca tctcgcatgc ccctatataa ctattcctgc ttctaaattt tcattttact 180
ctgccctttc aacatactcg ttcattctaca 210

<210> 15011
<211> 240
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-025-Q1-K1-C12
<400> 15011

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cacgatcaca cacaccctgg ccattctctac aggtgctctt gcttctacaa tactattgat 180
cccctcgcta tcgctaccaa tccggagaac cttcaacgtt tcaacgactc taaactctac 240

<210> 15012
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-025-Q1-K1-C2
<400> 15012

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ttgctacgga agtctttggc aggatcctga aagatagcaa caatggctcct atattgcttt 180
atccagtga ccaatcaaag tgggacaaca aaacgtcagt ggtcatacca gatgaggaaa 240
ttttctacct agtgggatcc ctttcttcag caccgtctct ctcagggtcac ggcagcattg 300
cacatgcgat gagcctgaac agccaaatag tagagttctg tgaagaggct gatattggga 360
tgaacacagta tctagcacac tacaccacac aggagcagtg gaaaaccac tttggaacaa 420
ggtgggagac atttg 435

<210> 15013

<211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-C3

 <400> 15013

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 gcccggggcg gcaggggctg gtcggagcgg cagatgcagc agcagcgccg cgcgcgcgctg 120
 ctgccgaaaa tcgaggacga cggcaaccgc cgattcgtca tcttcatccg caccgccaat 180
 gtctacttct ggtaccgcgt caacatcatc acgggcggta cgacggcgaa gatcatgctc 240
 gccgccaagg acaacttctt cggcaggtac atctacaagg acacgctcgc caggaacctc 300
 gccgccgtca tttaaaaga cgaggatgag atcatagaca cagcgaaaga gcagtaccgt 360
 gtgctcaaga ccgaaaatga gtttcggtat ggctac 396

<210> 15014
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-C4

 <400> 15014

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 cgcaccacgc cgctgggacg ttgaactgcm ccgccttgcc cgatgccgcc ccgctcgtct 180
 ggggacgcca gctccgcccg tcgctctctc tccccgccac actgctcccg tcgctcgtcg 240
 agggcgccag gaggcacacg ccacggcggc ccgcccagc cgcaggggag gccaaagtctg 300
 tgggtttctt ggagaagtac ccggccctgg tcaactggtt cttcttcttc atgtggtact 360
 tgctcaacgt catattcaac atcctcaaca agaggatcta caactaactt gccctatcca 420
 tacttt 426

<210> 15015
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C5

<400> 15015

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acagtgatga aaacccatct gcacctaaga aggcattctgg aagcaaactg tcagcttcag 120
cgcctccatt caatccagga tcaactcttat caatgtccca cccatacagc acggtggcaa 180
tatatgatgc tagtgctgtt attcaggcag taccaaacca agcaatggag attctccctc 240
atgccattga cactagagtg cctcgtggcc ctcggtccac cttgtactat cgtactgggc 300
attccttcca aaggaagcaa ggttacacgc acagccagag cactattgta aggggtagtt 360
actccccac aaccatgaac ccccatgctg ctgaatttgt gcctggaaaa acattcgcag 420
cattctgat 429

<210> 15016

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C7

<400> 15016

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accaggtctc gccgccgccg cggtagaggg gagggagagg gagaaaaaac tggcccagat 120
cgagaggtac agcacgaaaa agagaggcaa gagagatagg ggaccggagg gcggcgggcc 180
ggggcccaag accgaggggc tcgtgcgag gaagctgatg aggtcctgt cgctcgctcc 240
cttcggtgc cgtgctggac ccatcgacga cgcgccgacg cccgtggacc acgtgccgc 300
cgccgccgcg aggaggcgcc ggaggaggag ggccaacaga gccgccagc tgctgggggc 360
tgctgcggt gcgccgcagc agtggcgccc ctcggtcg 398

<210> 15017

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C8

<400> 15017

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 ttgtgtaccc agtgccacac aacgtgcgca tgggtggtag gctgcaattc cggttggaag 120
 gacaggggaa tgctgggtgac aagaacgtgc tcacaacata gagctgctct gaccggggcg 180
 tgtgagaaca cggcgccgcg gcacctgact acctgcacgg ctcaactgctc cgagactacc 240
 gactggagcc gctcgggctg caaatgcccg tgcgatacct gcaactggag atcacactcg 300
 atggaccaca accttctcat gattgacgac gtaggtatca tcggcacccg gaccgtgate 360
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<210> 15018

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C9

<400> 15018

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 aggggcgatg gcggcggtg atgtggagta ccgttgcttc gtcggcgggc ttgcctgggc 120
 caccagcaac gagtcgctgg agaatgcctt cgctctctac ggcgagatcc tcgactccaa 180
 ggtcatcacc gaccgggaga cggggaggtc tcgcggttc ggcttcgtta ctttctctc 240
 cgagaactcc atgctcgacg ctatcgagaa catgaacggc aaggagctcg acggccgtaa 300
 catcacggtt aaccaggccc agtcccgtgg cgggtggcgtt ggcgggcgtg gctacggcgg 360
 cggtcgcggc ggcgggcgtt atggtggcgg gcg 393

<210> 15019

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D1

<400> 15019

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 cggcccgtc ggcgactgga ccaaggcgcc ggccagacgc tccatattca tcgaccgag 120
 ggagtttttag gctgataagt agtaaataca cttaggccta gctttagggt ttttttttgg 180

ttctccccgg gtcgtcgtec gttggatccc gtatccgacg gctcctagta gctagctcta 240
gagaagggtcc cacccttttg ggtttcgttt caaaacatgt ggtaacgcgc gcttgcttag 300
gcgtaatttc tgctagagaa ccggaatagg taaccttttc 340

<210> 15020
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D10

<400> 15020

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gaggtgtggc tategccggc gtctcgctc ccatccctct ccaacgcacc acctcgctta 120
cgctccaagc ctgccaccac aaccgcctct ttgctctctc cctgtccccg cctgccccgc 180
gccctgcctg tgctgcgtgt ccgtcgccgc cgccgacttc gcgccaccga gcagcaaggc 240
caggttcagg agcaagatga cgaggtggtg gacaggaaca tctcccccta ctgcagcatc 300
gacaggaagc agaagaagac gctgggagag atggagcagg agttcctgca agccctacag 360
gccttctact atgaccagaa ggccatcatg tccaacgagg a 401

<210> 15021
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D3

<400> 15021

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cttgattcct atttaaccag catatccttg agagtcattt tcccttagtc gggtaaggct 120
tgcgaaagta cactccgtac tcagggtttt cgaacccatg ttgtttagg tgatgagaag 180
tactctaagt gttcctgtgg ctggagggcg tttccagttc tgggggagga ttagttaggc 240
ttgtgtataa gctttggagg gttcctacct tctgctatt gtaataagtt atgcactttg 300
agtatatcag gacttgtaat aaatgtaact cttcctatgt aataagcttc agtttttagaa 360
ataaaaaaga atgttttgt 379

<210> 15022
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-A1

<400> 15022

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tcccccttcgc cgccgcgcgtc cttgtggtgc tctcgcctgg cggcgccgcg gcggacgacg 120
cttccagcga cgacgacgtt gggacttcac ggacaccgg ctgctccaac aagttccagc 180
tggtcaaggt gaagaattgg gtgaatggga ctgaaggtac aacttttgtt ggcctaagt 240
caaaatttgg agctcccttg ccaagagata ttcataagc aaaaaagtca tttgctgtcc 300
tatcaaattc aattgactgt tgctccaact tgacatcaaa gttaacaagt tcagttgcta 360
tagcaacacg tggggaatgt gctttcacgg ga 392

<210> 15023
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-A10

<400> 15023

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caccagtgcc tgatcgatgg cggcccaggc tctcctctcc ggccggcagc tgctgggccc 120
ccccgtgcag tcggccgtct ctaggtcgtc ggcgaggaag gcgcccttcg tcgtcagggc 180
cagctccagc cctccagcca agcaaggtgc cgacaggcag ctgtggttcg cgtccaagca 240
gtccctctac tacctcgatg gcacgtgcc cggcgactat ggcttcgacc cgctgggcct 300
ctcggacccg gagggcaccg ggggcttcat cgagcccaag tggctggcct acggcgaggt 360
gatcaacggc cgctacgcca tgctgggccc ggtgggccc 398

<210> 15024
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-025-Q1-K1-A11

<400> 15024

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 agcgcctatg gcatctggaa gcacataagc tgtacatggt tatgggatcg tgttctagtt 120
 agccgtgggtg catatggagg attttgtgat tttgacaccc attcaagagt gttctcatat 180
 ttatcatatc gcgatccaaa cttactgaaa aactagagg tctatgatga gacaacgaga 240
 ttccttatag agctaaaatt ggattatgat gactcacia aagctattat tggaaccata 300
 agctatgttg acgcctacca tctaccataa tctaaagggt acagcatcct aatgagatat 360
 tt 362

<210> 15025
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-A6

<400> 15025

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 tcagattcaa atgtgaagtg gattgatggg ctccagttca catcattgta ctggcctcca 180
 cccctcgatg cggagcagaa gcaggcacia attttggcat atgtcgagta ctttggccag 240
 tttacagctg acaccgatca attgctgaa gacataactc agcttatttc aaggtcctaa 300
 tcatcaaaag aaaaatcctt ggtagaataa agtattggca acttttggtc ttcacatcc 360
 ggagcatggt catgcagttg cacatccaat tctttcaegc atcatagatg ggacgctgtg 420
 ctatgatag 429

<210> 15026
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-A9

<400> 15026

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gtaaccggcg atagattaaa agaagctcaa tacattaaca aatcactctc tgcgttaggt 180
gatgttattt ttgctttgtc acagaaaagt gcccatgtgc cttatagaaa cagcaagtta 240
acacaagttc ttcaaagttc tttacgtgga caagcaaaca ctctcatgat tgatcagata 300
aatcctgatg ttgagtcata ttcagaaact atcagtactt taaagtttgc tgaacggctg 360
tctggagtag agttaggtgc tgctagaagt aacaaggagg gaaaaga 407

<210> 15027

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B1

<400> 15027

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cgggccccaa ccaggtgttc aagatcttct gccgcgcaa cgagaactac tgcctggccg 180
tccgcgacgg cgccgtcgtg ctggccccgg tcaaccccaa ggacgaccac cagcactggt 240
acaaggacat gcgcttcagc acccggggtca aggacgagga aggcattgcc gcgttcgcgc 300
tcgtcaacaa ggccacgggg ctgccatca agcactccct cggccagtcc caccgggtca 360
agctcgcgcc tttcaaccg gacc 384

<210> 15028

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B11

<400> 15028

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ggagctcggc ggcgtcgcga cggagctggg ccgccagctg gtggaggcgg tgggcgtggg 180

gctccccctgc accgtcatgc agtgccggcga cgtcatctac cgcagcacgc tcccccgga 240
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ctgggtccacg cccggcgctg cgcgggggtt cttegacatg ttctgtctcg ctttcgccga 360
acgcctcttc cgcccttctt tccgcaagga tgact 395

<210> 15029
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B2

<400> 15029

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gcgcgctcgg ccacatcctc ggcgtcgga tctgtctcg gctcaagaac accggcgccc 180
tcgaccagat catcggttag atccctacgt cgcggttgtt aagatcagac tcagcagcct 240
cgatcgcgcc gccggccggc aggtgcaggt ggtgactttg taacgtgtgt gcgtgcgtac 300
gtgtacattg catccatctt ggttccaatg gacatatagc tcctgttgct cctct 355

<210> 15030
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B3

<400> 15030

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ctacaggggt aaagatcgag tgagcatcgc tgcacatgc gcccttctat ctgctgtgca 180
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agtaagacaa agaatgaaga gaagaagccc atacagacgt ttcggccata taacattgct 300
catcgtggat caaatgggga aattcccgag gaaacagctg ctgcatacat gagggctatt 360
gaagaagagg cggattttat agagtctgac atccttgcta gc 402

<210> 15031
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B5

<400> 15031

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 gggaggccac ctgccggcag ttcgaggagc acagctgcaa ccgcggcgga tactgcaact 180
 ttatgcacgt caagcaggtc ggccgggacc tgcggcgga gctgtttggc cacctgcatc 240
 gtcctctccg gagccacagc cggggcagcc gcagcccag cccataccgc cgccgcggta 300
 gtcctgcccag gtccagggac cgcgacgatt actactacta caactaccgt agtggcagtg 360
 gcagccgcaa gagcagcgag aggcaccgga accacgacag ggacgggagc cggcgtc 417

<210> 15032
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B7

<400> 15032

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 gtcgaggcga ggacgaggaa gcagatcgaa gcaccaacc acaccacact ggtggtgagt 120
 ggttgctggc gatggccatg gaagcgatga tgagcgggct caactccggc gtggtgctca 180
 gcctgatcgc cgtgctgtgg acggtggtgt ggcagaacct gcagcacctg cagctgcagc 240
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 acctgtcggc caccatcgcc gactacgagg gcggggcgat gaagcgcagc gacgcgtacg 360
 aggagggtcaa ggcctacctc agcgacgcca gcgcccacgg cgtgcgccac 410

<210> 15033
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B8

<400> 15033

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ggacatgata atcatctata atctttatta ggtggagttt caggggcatg atcatcatct 120
ggctgacatt gcattgtcac caaaacatgc tgggtgttact tttttttagt aaaccagcga 180
aaccacatca actattataa tgaaaacaca tcgggtggaac tgcacaaagg ggaatacatg 240
atactaatagc taaaa 255

<210> 15034

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-H8

<400> 15034

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tgggatctgt gtgggcaccg tgggtcgctt aaatcgatgc cgcaccattg gcaccttcca 180
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cgcgctcacg gtagagcacc gacgggggat ccgacgctg ctctgcatc cctgcagaga 360
ggcctcctcg tctcgccct tgggggcacc gtgaggtatg gctacattcg 410

<210> 15035

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G2

<400> 15035

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caccctgatg cagccggcca agatcgggcg ccgggcgccc ttgcctcgc tgccgtcccg 120
cccgtcgtcg caactgcct gcagggcggt cggcgtcgac gccggcgccg ccaggatcac 180

gtgctccctg caggacgtcg ccagcaggtg cgtcgacgcc gcgaagctcg ccggcttcgc 240
gctcgccacc tcggcgctcc tcgtctcggg cgcgagcgcg gagggcacgc ccaagaggct 300
gacctacgac gagatccaga gcaaaacgta catggaggtg aaaggcacgg gcacggcgaa 360
ccagtgcccg accatcgacg gccgcgtgga gtcgttccc 399

<210> 15036
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G4

<400> 15036

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tatacaacta taactctcac attctaactt catcaaatta ttctaataaa ttaataatct 120
ctaaataatt cttaaaaata caaattgcta attaattcat tttcaattta caaaaattta 180
aattcaaaaa aatgtgtctt aattatatca tatacaacta ctacacattc attcaagcca 240
ttattccatt ttcttacaaa atattatata caaattgatc aaccctatc ttacaaattt 300
cttccaaaat acaacacacc tttttatac 329

<210> 15037
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G5

<400> 15037

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cggacgccgg cggcgacagc cgcggccagc tgctgctcgt cgtggtggcg cccgccatcg 120
ggtgggtgct gtacaacatc ctgcagccgg cgctgaacca gctgaaccgc atgcgcagca 180
gccaggccgt ggccgcgggc ctgggcctcg gcgcgcggc cgacgtcggg atggcggccc 240
cgcccgaagc ctccgtcgcc gtggtgcagg acctcgggc aatcgccgtc gacgcgcccg 300
ccgacgacag ccgcggcctc ctactgctca tcgtcgtcgc gcccgccatc ggctgggtgc 360
tcttcaacat cctccagccg gcgctcaacc agctcaaccg gatgcggtcc gactgaagct 420

agctagctag cg

432

<210> 15038

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G6

<400> 15038

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aaggtcgagg agctcaacat ggcattatca gatatcggaat aatctaggca gctatagcgc 120

tcacattcta acttcatcaa attattctaa taaattaata agctggaaat aagtcttaaa 180

aatacaaatg gctaattaat gcattttcga tttacaaaga ttgaaattca agaaaagggtg 240

tattaattat atcatatata actactacac atgcatgcaa gccatgggtg gatatttgta 300

caaaatattg tgtacaaagt gatcaacccc tatctgacag ttttctccca aaggacacac 360

cccttgggag aactgcac c attgtatat aagagatcct atttgcaata aagttgacaa 420

ctgtcattcc ctcc 434

<210> 15039

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-G7

<400> 15039

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acgttcacgc cgccgccctt catcacctcc ttcacggagc tgctctctgg ggcagcagcg 180

gacatggtag gagccgcggg cgccgatcat caggagcggc cgccgagggg gctgttccac 240

cgcggggggc acagaaggcg gggcgtagg cgttcccaa gttcaagtcc gcgcaacccg 300

ccagccttgc catctcgccg ncgncgatgt cggcctnctn ctacttctnc atcccgcccc 360

gggctcagcc ccgcccagct gctggactcg cccgtcctgc tccactcttc ctogaacttc 420

ttcgcg

426

<210> 15040
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G9

<400> 15040

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caccatggcc ctctcctcca cggccttcgc cggcaaggcc gtgaacgtgc cgtcgtcgtc 120
cgccttcggc gaggcccgcg tgacgatgcg caagacggcg gcgaaggcca agccagcggc 180
ggcgtccggg agcccgtggt acggccccga ccgcgtgctg tacctggggc cactgtccgg 240
cgagccaccg agctacctga cgggcgagtt cccgggcgac tacggctggg acaccgcggg 300
gctgtcggcg gacccggaga cgttcgccaa gaaccgggag ctggaggtga tccactcccg 360
ctggggccatg ctgggcgcgc tcggctgcgt cttccccgag ct 402

<210> 15041
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-024-Q1-K1-H10

<400> 15041

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ctggtgatgg tcaattatgc agcacctcag aaacactagt ggatgttgaa aatagaaatg 120
gagatttggc agctctgtct gaagacacga ctgaaacaaa tcgtcctcct atcagagttg 180
taccatttcc tgtccctggt caatgcttca catttgatgg gcagccgttc tggaatggta 240
caccggtggc atctccattc taccacagt cagctcccc catttggaat agcaaaacac 300
caacgtggca agaatcaacc ncacaggcaa cttcactggc gcanaaatcg caacagaatg 360
aaccagttg aatggat 377

<210> 15042
<211> 376

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-024-Q1-K1-H12

 <400> 15042

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 ttcttgga aa acagcacgct acttacttga aagtaaaggg agatacttgc cgcgttggga 120
 ttctccaact ccaaccaaga cgaacgattt catcccaacta atcctttttc ttttcttttc 180
 gtttttattt ttaattttctt ggttcgggttc ttgatcacct gttcttcctt atgaccttat 240
 ccaggaaatt agattatcag gtgcttctat ttgtttgtgc atctcttggt tgcgcctgcg 300
 atctggacct tttttggctc ctcaacaaaa gagaagatga gcctttcttg gtggtagtta 360
 caaccggtgg cgtctc 376

<210> 15043
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-H2

 <400> 15043

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 gacggcgctc cccaggaatg ggcagcgggc gtcgtcctcc ttctcggcg gcaagacgct 120
 gctgagacag gccgaggcgg cccggccgtc gttcgccgtg cgcgccgcgg cggaccccaa 180
 caggccgatc tggttccccg gcagcacccc tccgccgtgg ctgcacggca gccttccccg 240
 cgacttcggc tttgatccct ggggcctcgg atctgaccgg gagagcctgc ggtggaacgt 300
 gcaggcggag ctggtgcact gccggtgggc gatgctcggc gcggcgggca tcttcatccc 360
 ggagttcctg accaagatcg gcgtcctcaa cagcccttc tggtagaccg ncggcgagca 420
 gcagtacttc accgacacca ccaccc 446

<210> 15044
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-H4

<400> 15044

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gacatcctgg atattccttt gcctgaacta gaatctatga gatctctgaa ggtcgctttc 120
caaaatgccg caaaccatga gatgtcggtt cacattatgc ggttaccaa aagtaactct 180
ctccttgatt tgattgaaga cttaaagtca aagggtgaaa tttcttgtaa tgatgctgaa 240
tttcgggttt ttggagtcta ccttcacaag atatgcaagg tgtatcaacc tggagataag 300
atagattcag ttaatgacca tggacccttg tatattgaag aggttcccga ggatgaaaaa 360
aatgccgggc ctcatgaccg tttggttcat gtctatcatt ttgaatataa tcatcatatt 420
cagtattttg gtgaaccttt cttcttcc 448

<210> 15045

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-H5

<400> 15045

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aaggcttggt cctgctcctt gtatctccac tcccccttc acagatccgt tcttcacgt 120
agggttagcg ttcctctgca gcgatggcga tcaagcggac caaggcggag aagaagatcg 180
cgtacgacaa gaagctgtgc agcctgctcg atgagtacac caaggtgctc atcgccctcg 240
ccgacaacgt cggttccaag cagctccagg acatccgccg gggcctcagg ggcgactcgg 300
tggtgctcat ggggaagaac acgctcatca ggcgctgcat caaagtgtac gccgagaaga 360
ccggtaacca cacctttgac ccgctcatgg acctnctggt cggcaacgta ggcctcatct 420
tcaccaaggg agacctcaag gaggtgcc 448

<210> 15046

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-H6

<400> 15046

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ccgtcgccgg ccaccagcct cgggagttcc tccggcgatc cccgtcccct tgtgtgcgcy 120
ctccaggagg gcctttctgcc tccagcttgc agagcccacc taattgctgc gagatggata 180
gagggcagaa cgggagggat gacgtcttcg gacgcaggga tccattttct gggtttggct 240
tcggccccc caggagcttg ttttctgggc tccttggggg gagggatcca tttgacgatc 300
cgttctttac ccatccgttc gggggtcgga tgatgggtga ccatgacatg tttgtaccta 360
gtccttttgg gccgatggga gggccttttg gggacatgag gaacggtggg tttatcgagc 420
aagctcctnc taggggtaac agaagaaggc ctgtgatcac 460

<210> 15047

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-H7

<400> 15047

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attgggttaa gagactgcaa agatatagct tggtcgcttt ggattaaatc cagctatttg 120
gactaatcct tagagacaaa aacactgtat aagtagtaaa agtcggtacg aattaaagct 180
caagctagtc gtatctatgt aatgaataag ggtgaaacct ttgcgatcct agataataaa 240
tgaaattaat ttttaataaa ataaagtgtg tatagtctgt tgc 283

<210> 15048

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-G12

<400> 15048

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cgagcctatg tgactgtctt ggggatgcaa ctgtggagtc cttgagatga aactggattt 120

acacaaaagt aaatcctttg tggactagca gtagttgcat atacatggat gggttgaagt 180
 ttagccatcc tggttcatat tcatgtagtg cagttcatat tcatgttgat atgcaataca 240
 ggttggtggt tgttcaactt gaatgcaagc taggatcggt tgcttctatt tatgtaactc 300
 tgtattatct ccagattagt atattcatat attcatcttg ttatatgggt cactaggatc 360
 • ttgaacaata attntattgg agctggttgt tgtggcaatg gagca 405

<210> 15049
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E8

<400> 15049

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 ttccgcacaa attgtccagc tccctctgcg tttctctctg ctgcctcgg cctccaactc 120
 cggccatggt ggccaccgga agcgcgtctc cgggtccag ctcaacggtc tgcgttctcc 180
 ctgctctccc aagctgcgcg cccctgtcct gttccctgcg cgcgtgttc ctgctcgctt 240
 tggcatccgc gccatggagc cctgcaggga cgggccggta aatttagagg cctgtacta 300
 aaattcagaa gaggtcctat ttcatagaaa aaaaatacaa tcagaactat attgtaatag 360
 aattcatata ttctaaattg caaaacattt actagatgtg tttgaaaagc agcaagctag 420
 ctgctaacta agtt 434

<210> 15050
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E9

<400> 15050

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 tgtctctcag tcccagagct ttcttgatc gcgaggaatc cactggaaat tttgcaattg 120
 tagtagagaa ctgtatcgtc cgacgaaggt gcatggtgtt ggccatgggt cacggcaggg 180
 aacagagacg agcaggtcgg cgctctcccc ccagctcatt gatcctgtcc tcgctataag 240

gtagtcctgc ggtggcctcc gaatttcact cgatcgaaca cgacatgaag cggccacgcg 300
 gcgccagtcc ccctctgggt gcgatgacca atccgaacga tgatgggttac ggctgtggtcg 360
 ggatggagggc ggacgcagac ggcggacg 387

<210> 15051
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-F10

<400> 15051

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 tcgacgcggc aaaggcggcg gcaggcaagg agcccgttaag cccgggcact ccgtcctcgg 180
 tggccgccgg ccgcagcagc tgtgaggaga ggcgcgcggt ggacggcgtc gccctgcctg 240
 ggtggaagct cgacgccttc tgccaggagt cctgcccgtc gccggccatg agggcgcgct 300
 tncctacta cttctgaagc tttcctgttg cagtctcgcg tgagttcttg agcggcgaca 360
 tctggtgcat gctcttgacg actgatggcg ttctcttg 399

<210> 15052
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F11

<400> 15052

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 gcgttctcca ccagcttcac gcggggcagc cgggtgtcgg cgaggaacct cctgatgagc 120
 aggaacctgg agaggaatgg caggatcacc tgcattgacgt ttccccggga ctggctgcgg 180
 agggacctga gcgtcatcgg cttcgggctc atcggctgga tggggccgct cagcgtcccc 240
 gccatcaacg gcaacagcct cacggggctc ttcttctcca gcatcggcca ggagctggcc 300
 cacttcccca cgcggggcgc cgtcacctcc cagttctggc tgtggctagt gacgtggcac 360

ctgggcctgt tcatcgtgct caccttcggc cagatcggat tcaggg

406

<210> 15053
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F5

<400> 15053

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gcattggatg gtcacatatt tgcttttggt ggtggaggtg gcaagtcac atggtataac 120
acagttcgag gaataacgag tggatagaat gcccctcggt gaaccgcaag aaaggaagtc 180
tcgctggtat cagtcttaat agcaaaatat atgctattgg tgggggagat ggaaatgaaa 240
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tgctgattcc tcgatttgct cttgccgtgg ctgaattgaa tggaacaatc tacgccactg 360
gtgggtatga tggaagcatg tacttacaat cagcagaacg gtatgaccaa agggagggtg 420
tctgggtccg tcttcgaagc atg 443

<210> 15054
<211> 137
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-024-Q1-K1-F6

<400> 15054

taaaccatnn cntcctcctc ggtcgcgaac tctctcatgc ttcgatcacc atcacgtct 60
ctctcatcct catctaacca ccacagcacc tactccttct cattccctaa cccaccactc 120
ttcccatacc ttcattc 137

<210> 15055
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F7

<400> 15055

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 ctgaatacat gtgtgtgtat gcatgtttct gcaatcgtct ttactgaaaa atctgaaacc 180
 gggcagccgt gaaccttttc ttctcgtaag attcataata tagatagtca ctgccatgtt 240
 ctatt 245

<210> 15056
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F9

<400> 15056

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 tcgcgtgggt gtggagcgac gaggcgcagc tgcggccgtt cgttgagctg tactcctcgc 180
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 caatatcgct ggcaactggt gttataaatg agctgggtta ggaactgaaa ataaaaattg 300
 tgccaattgt tcttgcttcc ttttctggcg gctcaaaggg atgcatgtat aaggttattc 360
 agttactaga tggaatatgt gaaggagatg caatcatgaa ggactatc 408

<210> 15057
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G11

<400> 15057

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 cagggcatgt ggatctgtta gttcacctgc tgcaagcaag tatagctaca gggttgacca 180
 gtgtagaagt atgaatcctt actttgttgg gattcttgtc cccgtcgcgg tctccctgct 240
 gctccgcaag aagagaaagg ccgaaaggat gaggggagtg ccagttgagg ttggtgggga 300

gcctggatat gcagtcgta actatcggtt tgaacaacct gttgagacac actgggaggg 360
 ggtgtccaca cttgctgac tgtttgagca atcttgcaaa gagtatgtat acatg 415

<210> 15058
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D4

<400> 15058

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 aagttgggag aggagaggtg gttcattcca gcagggatcc ttctcgtgag cccagtcgat 180
 ctgaccgtcc ttggtatctg ggggggttgt tctgtactct ctctttaatt tgtgagtcgt 240
 gacaggttct tgaagtgcaa ttgttaagag ttttagttgt agaggaagag aaggatttgc 300
 taatatggcg ttggcagga cctccaaagt agtgctggga tgtatcgctt ttgggatttt 360
 ctgggtgatg gccgtcttcc ccaccgtccc gttcatgcct gttgggcgga cggctgggtc 420
 cctccttggg gctatgctaa tg 442

<210> 15059
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D5

<400> 15059

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 aattatccaa gcagctagtg ctagcatcta tggcgacctc cgttcgtggt ttcagtagcg 120
 cccctgcag ggatgtgccg ggcagctacg gccttccgct ggtgggcgcc gtccgcgacc 180
 gcctcgactt ctactacttc cagggccagg acaagtactt cgagtcccgc gtggagcgct 240
 acggctccac cgtggtgcgc atgaacgtcc cgccgggccc cttcatggcg cgcgacctgc 300
 ggggtggtggc ggtcctggac gccaaagact tccccgtcct cttcgacatg gacaaagtgg 360
 agaagaagga cctgttcacg ggcacctaca tg 392

<210> 15060
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-024-Q1-K1-D6

 <400> 15060

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 cggcgaagct ggagcgcggg ctcggcaagg gggttccac caccaactac gtggtgccgc 180
 tcgacaaggc caccgggatg acgcgccgc tcgtcgagat cctgcgggac ctcaacaagc 240
 gcgtccccga caagatcatt gaccccgaca ctaacaccgt caactggtac catgccaaaca 300
 gaatgcttag cttttacgca ccaggttggg gtggagaagt tcgtgatgtt atctattctg 360
 agaatggaac tgtaaccgtg gtatatcgag tgatacttaa aggaactgat ggagaggcat 420
 acagagatgc cacgggcaca 440

<210> 15061
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-D7

 <400> 15061

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 aaatacagac cattcaaatt gacaaaaaca ttcttactgg aaacattccg cccatattta 120
 gtcgactata tagcttgaac ttgctcaatc tttcccataa caatttatct ggccccatgc 180
 caacttttct aagtgggtcta aatcttagta aactagatct atcctacaac aattttcaag 240
 gacaaatacc aagaactggg gtattcaata atcccacaat tgtttcacta gatggcaatc 300
 cagaattgtg tggaggagcc atggatttgc atatgcctnc gtgccatgat acttcaaaaa 360
 gagtaagtag atcaaactta ttgatcaaaa tattgatccc aatttttggg ttcattgtcac 420
 tcg 423

<210> 15062
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D8

<400> 15062

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 atcatcaggt cgtgctagct agctagctat agctgggccg ggggacgtac gacatcagcg 120
 cgcgggccatg ggcgtgggga agctgatgaa cgacgtgaag ccatacctgg cgatgggtgct 180
 gctgcagggtg gggttctccg ggatgtacat cgtctccgtc gcctacctca agcgcggcac 240
 gaaccacttc gtccctcgctg tctaccgcaa cctcgctgcc accgtcgta tggccccctt 300
 cgacctcctc ttcgagaagc gagtgaagcc caagatgacg ccgctcatct tctcaagat 360
 catggggctc gccgtgctcg agcctgtgct cgaccagaac atgtactacc tcggcgcgaa 420
 gctgac 426

<210> 15063
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E10

<400> 15063

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 atctccaccc gcccgccgcc gacccctcgc ccctcgcgt tctccaagtt ctttcaggct 180
 aacctgcgga tcttggtcac tgggtggggcg ggcttcacg gctcgcacct cgtagacaag 240
 ctcatggaga acgagaagca cgaggtcatt gttgctgata actttttcac tggttcaaaa 300
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<210> 15064
 <211> 416
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E11

<400> 15064

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tcacatcaac attgtgggtca ttggacatgt cgactctggc aagtcgacca ccaactggcca 180

cctgatctac aagctcggcg gtattgacaa gcgtgtgatt gagaggttcg agaaagaggc 240

cgcgagatg aacaagcggc cattcaagta tgcctgggtg cttgacaagc tcaaggccga 300

acgtgagaga agtatcaciaa ttgatattgc tttgtggaag ttcgagacca ccaagtacta 360

ctgcactgtc attgatgccc ctggacaccg tgacttcac aagaatatga ttactg 416

<210> 15065

<211> 247

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-E12

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gggcctncac caaccgggtg cgcttcccc cgcgctcggg tctcctggtg ccgtgttccc 120

tccgggagct ccgcacccgc atcgactccg tcaggaacac gcagaagatc acggaagcca 180

tgaagctggt ggccgcccgc aaggctccgc gcgcgcagga ggccgtcgtc tncctctgcc 240

ctttctc 247

<210> 15066

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-E2

<400> 15066

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gcggagcttt tgctcccaag ccatcttctg gacctcacia gtccaggag tgccttctc 120
 tgatcctcat catcaggaac aggtcaagt atgctctgaa ctaccgtgag gtcatttcta 180
 tcctgatgca acgcatgta cttgttgatg gcaaggctag gactgacaag acctaccctg 240
 ctgggttcat ggatgtcatt tccatcccta agacaatgga gaactacagg ctgctttatg 300
 acaccaaggg ccgcttccgt cttcacccaa tcagggatga agatgccaa ttcaagctct 360
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<210> 15067

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E4

<400> 15067

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 cttggaattg aaggcaaaat atggtgcaaa ggtaattggt tctgagaagg ataaggacag 120
 aatacctggc attgacatca cgcttaagga gggtgacaca tggatgttcg ctggccatca 180
 agttcttgta ctggaaactc ctgggcatac aacagggtcat gtgtgctatt atttcgctgg 240
 ttctggagct atatttacag gtgacacctt gttcaatcta tcatgcggaa agctttttga 300
 agggactcca cagcagatgt atgcctcact ccagaaaatt acagctctac ccgatgatac 360
 aaaagtatac tgtgggcatg aatatacctt gagtaatgca aagtttgcct tgagtgtaga 420
 aaccgggaaa taaagcat 438

<210> 15068

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-E5

<400> 15068

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 gccttctgtt tccaggacgt cccaactgcc cagcgccgac cggccggcca ccatgaagcc 180

gccatcatca ctggtgcaact acttcaagct gctggtcctg ctggcgctcg ccaggctgac 240
catgcacgtc cccgacgagg acgtgctctt gtccctcggc gcgctgcgcc tcgacggcca 300
tttcagtttc cacgacgtct ccgccatggc gcgggacttc ggcaaccagt gcagcttctt 360
gccggccgnc gtgctccacc ctggctcggg ctccgacatc gncgccaccg ttaggcacgt 420
cttctccctg ggccaaggct c 441

<210> 15069
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-024-Q1-K1-D2

<400> 15069
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gatggccgcc accgccctga gcatgagcat cctccgcgcg ccgccgccct gcttctcgtc 120
cccactcagg ctcagggtcg cggttgccaa gccgctggcg gcccccatgc ggccgccagct 180
gctgcgcgcg caggccacct acaacgtgaa gctgatcacg ccggaggggg aggtggagct 240
gcaggtgccc gacgacgtct acatactgga cttcgccgag gaggaaggca tcgacctgcc 300
cttctcctgc cgtgccccgt cctgtctctc ctgcgccggc aaggctcgtct ctggctccgt 360
cgaccagtcc gaccagagct tntcaacga caaccaggctc 400

<210> 15070
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-024-Q1-K1-B7

<400> 15070
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atggcagcta caaggttctg tccatgggct ctccgagaac tgactccgctc tgttcccagt 180
ccaaagcggg tccttcgctg tccgccgggt ccgccacggg gcccttgcat caccgtcacg 240

gcccattgctc gccgttgccg accaagaaga tgccgacgtt ggaggagacg ctccaccgcg 300
atcagctccg agctgcctac atccagcgga agttctcagg cggcgggtggc gctggtggtg 360.
acgtccagcg atcggacgcc accgtgccga cggccctggg cacctnctg aacacgctgg 420
agtacctgat ca 432

<210> 15071
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-C10

<400> 15071

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cgtctccttc atgaccaccc ccgtcggcac gagcatccgt tcacctcggg caccgacgga 180
tgccaatcta aatgtggcca tcaacggatt ctgccacatc tgactcaact tccttcggtg 240
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<210> 15072
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-024-Q1-K1-C11

<400> 15072

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cctgtacctg atcgccatcg cgcagggcgc cgacaagccg tcggggctgg ctttcgcggc 180
ggaccagtgc gacgcggagc accaggggga gcgcgcctcc cgcgggtccc tattcaactg 240
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ggagtacgtc ggggtgggggc tcggcttcgg cgtccctgc gccatcgtgc tctgcgcctt 360
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<210> 15073
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-C12

<400> 15073

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 acctctggcc gcgtcaccat gtccgaggag tggatgcccg gccagccacg ccctgcccac 180
 ctcgacggct cctctcccgg ggaattcggc ttgatccgc tgggctcgc gaccgtgccg 240
 gagaacttcg agcggttcaa ggagtcagag gtgtaccact gccgctgggc catgcttgcc 300
 gtccccggga tcctgggtgcc ggaagctctg ggcctgggca actgggtgaa ggcgcanag 360
 tgggcggccg tccccggcgg gcaggccacg tacctg 396

<210> 15074
 <211> 539
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-C5

<400> 15074

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 ttatanntca ttgatatcat agtcggaagc catgccaagc gaaaggccct cttgagaagt 180
 gtctaagaat nngccctgtc cactttactc tctctgatct gtattccaag gagattaccc 240
 ttcaacataa taacatntta catgatgagc nttcacttca ttctcatncg cgtttggagc 300
 aagtataatg ataaaaacaa nttggaaacc gctatctgaa tggatcgaac ttaaacttnt 360
 gtcgctcaag gtggcaccta acatcatgca tncctttgag tgaggcaatg actttgctgt 420
 caacttctca cgatgcgctt ccacaaatct attttgttac tgatgggtca gttgatgatg 480
 aacggaatat ctgccatata ttgaaaactc aacttattaa aagtggatct aagtctcct 539

<210> 15075
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-024-Q1-K1-C6

<400> 15075

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ggcttgagcg atccgagcaa aaaaaatcat ccgcgacgca gcgacgcagg tttgttctct 120
gatctctctg gttcttcttt tagcagcagg gacgcacaac acaagaaaag gtccggttca 180
agaggctctt ctggtgggtt tttttagaat cctcaagaga agcgtgttct tggggttagga 240
ttttttctc acctcataac acctctccta ggaggaacag agatccagag aacctttttt 300
ctcttctgga tccttgccga cttttggcgt tcgaaagggg gttgttttgc aataccctct 360
ctctggtntt tttttcttct ttggcacaaa ctcacctcgt ttctctactt ttattgagga 420
acagagctgg ttttcc 436

<210> 15076
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-024-Q1-K1-C7

<400> 15076

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tctttgtcta agaaagagtg ctatactata tgtatgagtg tttcttcaag accatattat 120
tattccagaa ttgcggttta gtgcagtata tgtatgagat tttgttcatg accatatttc 180
caccacaaat tcaattcatc tgcactttat ggtcgtcatc tgcgcttctt ggtttaggta 240
ttggtggtga ctacacacaa gggagctcct gaggagttcc atggtgcaaa ggtcattggc 300
tcttgagct tccatgtcc tctgtaccaa aatgttccac tctcgtggc attgagcccc 360
agaatatnt ctgaggcgaa taaattcaag ccagacataa tccatgcgac atcacctgga 420
attatggntc tccgtgctct ggctataa 448

<210> 15077
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-024-Q1-K1-C9

 <400> 15077

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 cccaacccgc cagggcgagc caccacgtcg gtctccctct ccgcgcgccc cgtcactcca 180
 gcccgccgca tgattgtccc ggctagcccg tcgccgcggt cgccgcgccc gtgccggtcc 240
 atctactccg agagctccac cgaggcatcc gctgcggctg acatcgtcga cgaagaagtg 300
 gaggccgaga acaaggtgga cccgcaggcg gaggtgtgct acctggacct tgacgtggac 360
 cctgagtcga tccggga 377

<210> 15078
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-024-Q1-K1-D1

 <400> 15078

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 atgagtgttt cttcaagacc atattattat tccagaattc gcgtttagtg cagtatatgt 180
 atgagatttt gttcatgacc atatttccac ccacaattca cttcatctgc actttatggt 240
 cgtcatctgc gcttcttggg ttaagtattg gtggtgacta cacacaatgg agtcctgac 300
 gagttccatg gtgcaaaagt cattggctct tggagcttcc catgttctct gtacaaaaat 360
 gttccactct cgctggcatt gagccccaga atattgtctg aggtcaataa attcatgccca 420
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<210> 15079
 <211> 354
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D10

<400> 15079

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gctcaacgtg gaccaggccg acagcaccat aagctcccaa ggtgttcttt accttcgtct 120

cgccaagagt gatttccagg gtttgagcag aggcaacaag aggacaccga cggcggcgat 180

cgctgcaggc gctgttggtt ctggaatact agtgctcgcc gtgctagcgc tcgtaatctg 240

gagggtgcaac aatgtgccgc cgccgctaca cgccggcgtc ggagacggtg gcggaatcat 300

ggcgttcaaa cacaccgatc tatgccgcgc taccaagaac ttcagcgaca ggct 354

<210> 15080

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D11

<400> 15080

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caggtctcgc cgtgaagctg cgttgatgaa gtttcgcatg aaaaggaaaag atagatgctt 120

cgagaaaaaa gttaggtatc atagcaggaa gaagctcgca gagcaaaggc caagagttaa 180

gggacaatth gtaagccaaa agctgaactc agctacaaca acagacgcag aagctgactc 240

gtgaccggcg tcaagtcate actgtaactt attcttccct tcccaccagg tgtgggcaat 300

cggacttgta agactgaaag ctggcagaag ttttttccct tccatgggta gcctttctgc 360

acaacgggtg aactcttctg tcgggtgttt ggt 393

<210> 15081

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D12

<400> 15081

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ggatagggtt caaagtgtcg ctatcgcccg catctcacct cccatacctc ttcaacacac 120
cacctcgctt aactccaaa cctgccacca caaccgctc tttgctctct acctgtcccc 180
accctaccca cgcccttctt ttgtacgtt tccctcccc actaccac 228

<210> 15082
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-B6

<400> 15082

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ctcagcgtcg aggaacatgt gctaggggtg atactatcaa cccccaaaaa cccaactctg 180
ccttacgtaa agttgccaga gtacgattaa cctctggatt tgaaatcact gcttatatac 240
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aggatttacc cgggtgtgaga tategcatta ttcgaggaac cctagatgct gtcgcagtaa 360
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ggtttagccc ttat 434

<210> 15083
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A12

<400> 15083

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tgtcctatta gttggtgatg acccatggga ggacttcgtg aactgcgtgc ggtgcatcag 180
gattctttcg ccgcaggaag agaggcaaat gaggctggcc agcgactacg gagacagctt 240
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ctagaaatag caggctatgc ctgagcacia atgtttgata taatccgtcc cacgatagca 360

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409

<210> 15084

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-A2

<400> 15084

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gggggaagaa ccagctgctg cggccggaga tgtcgtcgca gctgatcgag gagcaccgggt 120

cgggcgcgga ggtgcacgtc gggcacgagc tgtgcgagcg caagtcgctc gagttcatgg 180

tggagctggg cctccccgac gggctcctcc cgctgccag cctggacgag gtgggctaca 240

accggtcgac ggggttcgtg tggtgcggc aggccgtcgg cctgaccac accttcggct 300

ccatcgga gacaggtgtg tacgacagg aagtgcggc gttcgtggag cccgggcgga 360

tgcacggtct cgccggngtg aagagcaagg agctcctcat ctgggtcacc atctccgaga 420

t 421

<210> 15085

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A4

<400> 15085

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gcagggctcc ggttgtgtcc aggaacatc ccagttgttg gcgagagacc aagaaatggc 180

ggagaaggag ggagcgaagg ttggagcgga agagatggaa gagcgggagc aggaagggga 240

ggcagaggag gtggaggtga agtttcgtct cttcgatggc tctgacatcg gtcccgtgcy 300

ctgcaacgcc gtcgacacta ccgtagccgc cctcaaggat cgcgtcgtcg ccgattggcc 360

caaagataaa tcaattatcc caaagactgc tagtgatgtg aaacctaata gtggaggcaa 420

aattctagaa aatgacaaga atg 443

<210> 15086
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A5

<400> 15086

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t 421
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<210> 15087
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A7

<400> 15087

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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-024-Q1-K1-A9

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 ggacgcggcg cgcacatcaatc ctccgcagtg cgcgctgtcc ggcacggtga agcgcgtcat 360
 ccacac 366

<210> 15089
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-B1

 <400> 15089

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 gccagcccat cggcacggcg gcgcanggca cggacgacaa ggactacaag gagcccccn 180
 cggcgccgct ctteagagccc gngagctca agtcctggtc cttctaccgc gccggcatcg 240
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<210> 15090
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-B10

 <400> 15090

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ccgccgccgc ctccggggac gccgcgccag cgcttcccaa gtaccgcggc ctgctcggaa 240
ctgccgccac catcgctagg gaggaagggg ccgcagcgct ctggaagggc atcgccccgg 300
gcctncaccg acagtgcac tacggggggc tccgcattgg cctctacgag cctgtcaaat 360
ccttctacgt cggcaaagac cacgtttggg atgtcccttt g 401

<210> 15091
<211> 356
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-024-Q1-K1-B12
<400> 15091

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gctgctgctc cacccttca acgcgtaact ggagcaggag ctggaccgcc gcttccgcct 120
gtaccgcttc tgggagacgc cccgcgagga gttcctccgc gcgcacgcgg gcgccgtgcg 180
cgccgtcgtc ggcaacgcca gctacggcgc cgacgcccgcg ctcatcgacg cgctccccggc 240
gctcgagatc gttgcctcct tctccgtcgg catcgaccgc gtcgacctcg ccaagtgccg 300
cgaccgcggg atccgggtca ccaacacccc cgacgtcctc accgacgacg tcgccg 356

<210> 15092
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-024-Q1-K1-B3
<400> 15092

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ggcgccggcg tcgcgggcgc cgagcgcggc cgagctgctc agcgaccctg tcctgcagct 120
ggaagacggc tgccggcctcg gctacggaga cgacgcggac tacagcgcca tgtacaacta 180
cctgcaccag cccgcgtgcc tggaccacca ccaccatgcc ggcagcattg gctccacggc 240

gagcaacggg gtggtgtcca atggcggcgg cggcggcggc ggcagatggg acgacgagtc 300
 cgaggacgag gacgacgatg gcagcatgtt ccaaggcatc gaccagctgt tcaacgagca 360
 cgaagacgac gagctgcacg ttgctggtgt cgacatcacc atcaagggca agaggatg 418

<210> 15093
 <211> 329
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-B4
 <400> 15093

gcaggcagag gcaagaggcc cctcacctc aggtgatcag gtcgctagct cccggcgtaa 60
 gtagtaggca gccatgaatt tcggtgggaa tggcaacgcg acgatccggt gcaagtactg 120
 cagggcgagc ctgagcgtga tccccggcga gcgcgccatc cagtgcgcgc aatgcaactg 180
 cgtgacccgc atccggcggg ccgaccgcat cccgcttggc gggncgnnnc acgtgccgnc 240
 ggcgntncag cgcgccccgn gcangaagcg cgcnnccct ggcgccatca cgtacgccgg 300
 cgcgcgccgg ggctggcggg acctgaggg 329

<210> 15094
 <211> 146
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-023-Q1-K1-G12
 <400> 15094

acccacgcgt ccgaggatga gcacctgcac atccatactc tacttcgagg ttcacacanc 60
 tatctctagc actgcagaca cctgtcaaat ctctacaaag acacactcac acatgctcaa 120
 agaccatata cctacagagg acacac 146

<210> 15095
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-G2

<400> 15095

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ccgaggacga gccncgggca tcagagcgcg cgccccggag ccgaaaagcg gtgggcgtca 120
tgaagcccc ggccggcgcc agcggcaagg gcggcgcggt ggacctctct ctgccgcggt 180
tcaggtgcca ggagtgccgc cgcgccctcg tcgtcgtegg ggtccaatcc taccgacaca 240
gaactgcccc acaagccggg ccccgtaatc attcctcttc tgttcaaggc aatggtattg 300
gtgccagcca gattgacaac tcttatgggt ggctatctaa accgaaccaa tcttaaggtc 360
ctagaatttc ttcacgcccc acaagtcaa caaccgcaca tgcttatccc aaccaatcaa 420
caataaccat agaagggtca tatatagtgc ttccaccttc 460

<210> 15096

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-G3

<400> 15096

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ctcggatggc gtccggccgg agttccttgg cctgacccca tgctgcgttc gcccatggcg 120
ttttccctg ctccgggtcc ggtcctgggt cacccgagct ccctgcgcga ctgccgtac 180
tccctcctgc aactcgggtg ctctcactg ctccctctga tctctctctg acccgcgctt 240
gttccacttc gtggctcagg gcccagttg gttgggcctt gaacttccat tgcttaatgg 300
ccctggtcaa ggttttgggc gccaaagtcc ttaagttggt ttttccattg gttgcttgtc 360
cgggcggcct ggttcttttc ctttcttccg gtttc 395

<210> 15097

<211> 307

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-G5

<400> 15097

cccggggcgga ccggagtcag gcagccgaag ctagaaaagc aagcggcttt ggaagttgga 60
 atccgatggc gtccacctcg tgcttctctc accagtcac cgcccgctg gccgcgccgt 120
 cgccgcgcct cgccgccccg ccgcgcagcg cgcaactgtt cgtctgcaag gcccagaagc 180
 agcaggccgc cgcggcggag agcgacgtgt cgcgccgcgc cgcgctcgcg ctctctgccg 240
 gcgtcgcggc cgtcggcgcc aaggcgagct ccgccgncgc cgnctacggg gaagcagcca 300
 acgtggt 307

<210> 15098
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-G6

<400> 15098

ccggatcgag cgacgcgtac gcccggggcg accggagtca ggagtcgaa gcttgaaaag 60
 caagcggctt tggaagtggg aatcgatggc gtgcacctcg tgcttgctcc accagtcac 120
 cgtccgcgtg gccgcgccgt cgccgcgcct cgccgccccg ccgcgcagcg cgcaactgtt 180
 cgtctgcaag gcccagaagc agcaggccgc cgcggcggag agcgacgtgt cgcgccgcgc 240
 cgcgctcgcg ctctctgccg gcgtcgcggc cgtcggcgcc aaggcgagcc ccgccgccga 300
 cgtctacggg gaaacagcca acgtgttcgg caagaccag aagaaca 347

<210> 15099
 <211> 260
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-G8

<400> 15099

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 cgggtgtctt cctctctctc ggtcgaagaa gaagaagaag aaaacatgtg tccgggatcc 120
 gtggagtcgt cgtcggcggc ggcggcgggc aagagcgtgt gcgtgatgga cgccgcgggg 180
 ccgctgggcc acgcgctcgt ggaccgncn ctccggcgcg ggtacaccgt ccacgccgnc 240

acgtacgccc gcgacaggga

260

<210> 15100

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-G9

<400> 15100

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ccagatgagc gcggggcgac ggcgaggaca gctacgcctc caactcaagg cttcaggaga 120

agtccatact gaagacgagg ccggtgctgc acaaggccgt ggcgggcgcg cacgccttgt 180

cgctctctc aggaggaccc ggctgcggt ccatggctgt cgcgacctc agatgcttgt 240

cggggcccac cacactgatc 260

<210> 15101

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H1

<400> 15101

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gaagtgatcc tggggtaagg gcagaagttg tccattcatt gaaagaggaa ttgaatctga 120

tgtgtggcct ctcttgcctg cggcatccat aagttaatac tgctctatct gtaaccttta 180

cttaacatct tggattcgtc ctttttaaaa taatagttgg aatgtaactt actgccttac 240

tttttacatg gcaaattggaa caatcaaggt gaaccggcca attggccagt tttgaatggt 300

aattaacttg gaaaccactt ttaattacct tggaaaggcc gccgtatttg gtcaacttga 360

tgggggggtt gaagtgggaa tcttttaaat tcaagggttg aacttgacct tccaatgggg 420

attttatggc cttaaccatg gttggggctc attagttggg gg 462

<210> 15102

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-H10

<400> 15102

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actgcatctg gcccatgttc tctagcttcc atgcatgtgg catactggca tggatgacgc 120
cgtcgtagta ccttggtcag ctacttactt attcaagcaa agaagccatg agagctggtg 180
ttagcgccgg acaccggcgg catgtgcggc atctgggagg ccagaatgct ctgcaggagc 240
atcctgtcct ccgccgacgc ggggaagacg tcgcttgccg cgccgncctg caccaggccg 300
ctgctgtagc cgccgaacgg cgacgcggcg gcgtactgct gctgctgcct gtggaccggc 360
ggcgcttcaa ggtgttggtg ctccggtgga agctgtggtc gaagaaggac acgttg 416

<210> 15103
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-H12

<400> 15103

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atctcacacg ccgagctatt tctactttga gagaateccc ttctcccaca aggagcgagt 120
aatttgaggc agagaccgac acagatggca gcggttatgg tgtctcgcca aggccgggag 180
ctgcagcggc acagcgcgag cacgggcggg cgcggtggtg tgggctgcgt cccgtaccgc 240
gtgcgcgggg gcgacggcga ggtggaagtc ctggtgatca gctcgcanaa gaagggcccc 300
gccgggggag tgctgatccc caagggcggg tgggagctgg acgagtccat ggacgaaggc 360
ggcccgcgcg aggccgcgga ggaaggccgc gtgctcgggc agacggggccc cgcgctgggc 420
cgctgtgcta 430

<210> 15104
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H2

<400> 15104

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acagtcctta ggtgttcgat gatatgctcg aactgggtggc cgtctaagtt cttgctgaaa 120

tcgagtcgga gcatgatgtg gttcgttaca cgtgatgcga aggacaagag ccgagttgat 180

cccaaaatga tgctagtga cgaacctaaa gatggatgat ctgatagaat gccagaatgg 240

gaaaatctca ccaagtgggc gtcaattaac aacacttact taatggatc ccaaggtata 300

atgttggtct ggtatggatg ctgctaaatg cccgtgggct caatcttctt atataagtat 360

attccatctt tagcttcttt attgaggatt gtcacttaag ctagcatgta tttgaaaacc 420

tataaatatt ttatacatTT taaattgtga ttttttttga atcac 465

<210> 15105

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-H6

<400> 15105

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cctccggggc tacgccgcgc ccagggtccgc ggtggcagcg ctgccgtccg tgaggggtggg 180

caggaagagg tcgtcgctgc agggcatccg ctgcgactac atcgggtccg ccaccaacct 240

gatcatgggtg acgacgacga cgctgatgct gttecggggg cggttcgggc tggcgccgctc 300

cgcgaaccgc aaggccacgg cggggctgaa gctggaagcg cgcgactncg gcctgcagac 360

gggtgacccc gccgggttca ccctcgccga cagctggcc tgcggcgccg tcggccacat 420

cctcggcgtc ggcacgtgc tcgggtcaa gaacaccggc gccctcgacc ag 472

<210> 15106

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H7

<400> 15106

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aagggtccact ctatacatc gagctgtcct ccgccttgcc ccgtttccac ggcctccctg 120
gctacaccac tcccagggtcc acattggcag ctctaccttc cgtgaggggtg ggcataaaga 180
ggctgctgct acatgtcatc cgctgcgact acatctgctt caacaccaac ctgatcattg 240
tt 242

<210> 15107
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H8

<400> 15107

agatcgtact ggaccaatct gccaccacac ttgatcaca cacagacaca ggaagttggg 60
atcggaaaaa tgcaggctgc cgctactgcc gccgggttct cggccgtgct gcccgccaag 120
ggcaggccgg cggcgaagag caagggtgtg gcccggtgcc ccgccacaag gaggagcgtc 180
cgcgagctg ccgtcgtcgc gaccgaagcc gcgcagatcg actacagctc aagcg 235

<210> 15108
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-G10

<400> 15108

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acacagttgg gccaaagcgc tacancctat cagaggagag acataggtct tgccgtccgt 120
cgctgcgcc ggaagagggg accggaggga agaaggctgt ccagcaatca gagatnggag 180
gtgggggtct tgggggtctg ggcacatng ggcataaggca atgtgcgacc atacctnctn 240
cgccacgggc ttccgcgtca accgtctgga acagggaccc tcgccaagtg ccaagagctc 300
gccgcgctcg gcgccaccgg tcgggagacg cctgcctnct tcgtctccaa gtgcagatac 360
accatcgcca tgctctnctg cccagcgcgc cgcctatcag tcgtcttcga caaggat 417

<210> 15109
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-H9

 <400> 15109

 gacacgatcg cgagcgcacg cacgtaagca cgttgtctga agtcaagtt agaagaagca 60
 ccagtgcctg atcgatggcg gccaggtc tcctctccgg cggcagctg ctgggccgcc 120
 ccgtgcagtc ggccgtctct aggtcgtcgg cgaggaaggc gcccttcgtc gtcagggcca 180
 gctccagccc ttcagcctag catggtgccg acaggcagct gtggttcgcg tccaagcagt 240
 ccctctgcta ctcgatggc tcgctgcccg gcgactattg cctttaccc 289

<210> 15110
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-E10

 <400> 15110

 agcaaccggt ccagcacttt cacgctcagc tccagcaatg gctgcctcca ccatggcgat 60
 ctctccacg gcgatggcg gcaccccat caaggtgggc tccttcggcg agggccgcat 120
 caccatgcgc aagaccgtgg gcaagcccaa ggtggcgggc tccggcagcc cctggtacgg 180
 ccccgaccgc gtcaagtacc tcggccctt ctccggcgag ccccgagct acctcaccgg 240
 cgagttcccc ggcgactacg gctgggacac cgccgggctg tccgccgacc ccgagacctt 300
 cgccaagaac cgcgagctgg aggtgatcca ctcccgtgg gccatgctcg gcgcgctcgg 360
 ctgcgtcttc cccgagctgc tcttcgcaa cggcgctc 397

<210> 15111
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-E12

 <400> 15111

ctcttgcctc ccacacgctc ggccctctgt cccggcgaaa atctggtcgc tggtagaaaa 60
aaagggcccc atttgtaatg tcaggaggat cttaaccatc atcaaggcga aacagcttta 120
attctttgtc taaggaccta gaccttcctt cagagcaagg ttgtctctcc attgttgtac 180
ttggggcttc tggtgacctt gctaagaaga aaacattccc agccctctac caacctcttt 240
gaccagggat tcatacacat ctggagaagt ccatatattt ggttatg 287

<210> 15112
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-E5

<400> 15112

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actgcctcag ttttagtaat tagtgtaccc cttgtatttg cttctcctga tggttgggtca 120
aataataaaa acgttgtatt ttccggtaca tcattatgga ttggattagt ctttctggta 180
gctattctga attctcttat ttcttgaatt tgtttagtat ttagtaaccc gatacaaaat 240
aaataaaaaag aaaggccctt ttctgaaaaa nattaggatt tttatacaca ttaaaatgct 300
attttcgttc cgaattatta cctcttctct ttcattatta tgaaattcta ttgccattag 360
aatattgatt gatagacagt taat 384

<210> 15113
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-E8

<400> 15113

gagccccaga tgaagtattg tttcagcctt tcaggtagtg tggtcagggc atgcacgacc 60
atggttagtt gttttattgt gagctttacc tctttgctta tggcatggct taaattttaa 120
aatttactat tgttatcaac caaatccaac ttagcaagct atcattcaat ttactgcatt 180
tttaattggt gtatttcaac tttatttttt tctctcaaac gcgcagaaga gctacacatc 240
attatattaa gagaggaaaa aaggtccaaa gtggaccaa gtacaatgcc taatgggcag 300

acccgaccag tttgaaaacc ttaaaaatca ggaatagcca aagccctaataaaaagccgca 360
 gcaaggggcca gaactatatt cttaagatta gccctattcc aaccacttaa cttatttttaa 420
 aaccaacttt 430

<210> 15114
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-023-Q1-K1-E9
 <400> 15114

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 cccggaagcc ggcacataat gaacctaaaa ctcttgccaa aagccaaagt caggctactg 120
 gttcaaagac tatttttggt gggaatttag cctacagtat agagcgtgaa caagttaagg 180
 aattttttga ggaggctggt gaagttgttg atgttcgttt ggctactttt gatgatggga 240
 gtttcaaggg ttttgacat gttgaattcg ctactgttga agctgctcag aaggctcttg 300
 aaattgttgg tcatgacctg a 321

<210> 15115
 <211> 281
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-023-Q1-K1-F1
 <400> 15115

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 aagggccttg tcgggaagct cccactactt tttgttagga caagactcac ccccatgccg 120
 tgtcatgcca ttgccacca tccttgggag ctgcagctgc ctatataata ccaacagtgc 180
 cgaagcaaga acatccaccc tgcaccacca ccgccgggca ccagcgtcgt cgaagctgct 240
 cactccatcg ccgctccaag ctgtgagtcc gagcatcaac a 281

<210> 15116
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F10

<400> 15116

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 tgaagaacct tgctgctatt gctagcacac atgcatatca agatgttcta aagaatgcaa 180
 cttcaatatc atcaaatgat ggtaataatg ctgcaaatgg ctctataatg catgagcaaa 240
 ccatacggtc aattcctgtc aggagagaat cattagcaga agagcctgcg gtgaaaagac 300
 gagtacagga ctttgatttg aacgattcat gcattgaaga ggccgagagc cgaac 355

<210> 15117

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F11

<400> 15117

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 aatattgttg tagcagaaac tgtgagcttt tctgagctga agcttcagcc agagacagaa 120
 cagcgcccg cacaaggctcag cttttttgtt gataagaaga atgccagga agtgataaaa 180
 tctgttgccg agagattgga caaatgtggg ctagatgcca aaataatata tagtggtggc 240
 caggaccttg atatattacc tcaaggagct ggaaagggcc aagcacttgc atatttgctt 300
 aaaaagctaa gctcatgtgg aaaaccgtcc aacaatactc ttggttgggg tgactctggt 360
 aatgatgcag aattattcag catccctggg gtacatgggt tcatggtcag caatgcccac 420
 gaggaactac ttcagtggta cacagaaaat gcga 454

<210> 15118

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F12

<400> 15118

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cgagcgagcg caccaaggag tacggctacg tcgtgctggt gctggtggcc tatgtcttcc 120
tcaacctttg gatgggcttc caggctcggca aggcccgag aaagtacaag gtgttctacc 180
ccaccatgta cgccatcgag tcggagaaca aggacgcaa gctcttcaac tgcgtgcaga 240
gggggcacca gaactctcta gagtggatgc ccgttttctt cgtcactactg ctgctgggcg 300
gtctgcagca cccgaccatc gccgcccgtc tggggggcat ctacatcgtc gcgaggggtct 360
tctactccaa gggatagca accgccgttc cggacaa 397

<210> 15119
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-023-Q1-K1-F4
<400> 15119

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gcgtgcacct cctgtgtgct cctccaccag tcaaccgccc gcctcggcgc gtcgccgcgc 120
ctggccgcgc ccccgccgcg cagcgcccag ctgctcgtct gcaaggcccg gaagcaggaa 180
gccgcccgcg accagagcga cgtctcgcgc cgcgccgcgc tcgcgtcct cgcggcgctc 240
acgggcgcgc ccggcgccaa ggtgggtcct gccgcccgcg catccgggga accagccacc 300
gggttcggaa ggccaaaggc aacccccgat tcttgggta ccagggcgac cggtttaagc 360
tggtgatccc gttcaagtgg gaccccagca aggagccgga gtttcccgga cagggtgtcc 420
gctacgagga caacttcgac gccaacagca atgt 454

<210> 15120
<211> 458
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-023-Q1-K1-F5
<400> 15120

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accggtaccc aaatctaatt actttgatat ccatcccaca cccaaccaa aatactagag 120
ggaagttaaa cccaaccac ccaataacat tattgatccc aaaccaacc gtaattgggt 180

ggaaatccat ggaaaacccg tgggtttaac ttattgtctc acatcgagcc aactgcatac 240
atattttaaa aatcaaattt taaagcagta aattaattca aataaaaaag ttttcaacta 300
taaattggaa taactcatca tgatgtccat ttaatatttt gaacatttct tcgtatgata 360
aactaaaaat aaattgggtc ataaaaccta tatctctctc atagtttatg gaactacgag 420
agatatgtat agaatttggt catattgtta gaactatc 458

<210> 15121
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F6

<400> 15121

ccgggatcca agcaacaaac ttggcagtct tgctgttct taattattgc ctggacagga 60
gaaacaaaga tgaggcctca gctggtactc gtcggcactc tggctgttct cgccatcctc 120
gcagctctcg gcgaaggctc gtcgtcctgg ccttgctgca acaactgcgg tgcttgcaac 180
aagaagcagc cgccggagtg ccagtgcaat gacgtgtcgg tcaacgggtg ccatccggag 240
tgcataaact gcgtcaaggc cgggtgcagga attcgtcccg gcatgggcca tggccccgctc 300
gtcacctacc gctgtgacga cgttctcaca aacttctgcc agagcagctg cccggaagcg 360
ccggcgccat aagccggtgg ccggtggtct cttctgacgt acggcatggg acgccaagtc 420
gagtttgctt ctctccagtt tcgtcagaga aaagaaatag cttaatgaat a 471

<210> 15122
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F7

<400> 15122

cccaagacac tgagctggtc tgttttagttg gaaagccatc tgtacgtttt tcgccgatca 60
tggaggatga gaggaacacc cagcagcacc agggcgggtga gcaggcccag gaccaggaga 120
acgaggtgaa ggacagggga ctcttggaac gcctactcgg caggaacaag caccagcacc 180
aggagaagaa gaaccagcag gcggaggagg agctggcgac cggcatggaa aaggtcacgg 240

tggccgagcc cgaccacagg gagggaggac acgaggccgc caagaagatg gacagccttt 300
tggccaagct gaaccggacc agttccagtt ccag 334

<210> 15123
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F8

<400> 15123

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gcgattctcc gatcccaacc agactcatgg tggcgttcat ggcgagcagc ggggccatga 120
acgcgtcgag caggccaacc ttcgtcaccc ctcgtagctt ctttaactgg ggcaaaagcg 180
cgagagaaac cgagacgccc ccgcgcgagc tgcagttctc ctaccacgac gtcgagccac 240
cgttccccat gtcgctcgtg gcaaaaacac acctcagaga ccgtgagctc aggtgctgct 300
a 301

<210> 15124
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-G1

<400> 15124

ctccatgtcc tctccagac ctccacgac cggectcccc cacctctcgc cggccgagga 60
cgatgcgccc gcatcagagc gcgcgcccc gagccgaaaa gcggggggcg tcatgaagcc 120
ccgggccggc gccagcggca agggcgggcg ggtggacccc tctctgccgc ggttcagggtg 180
ccaggagtgc cgccgcgccc tcgtcgtcgt cggggtcgag tctacgccg acagactgcc 240
cgcacacgcc gcgcccggta atcatgcac ttctgggtcaa gggcatggta atggttgag 300
gcagaatgac cacctttaag gtggggctat ttaaccggac caattttaag ggccctagaa 360
ttcttcaagg ccaaccaggg gcagaaccgg acattgctga tccaagccat tcaccagaac 420
cattgaaggg gcaaaattta gggcttc 447

<210> 15125
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-D8

 <400> 15125

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 catttagcga agcggtaggt agcatcacta cgttcttccg ccaagctagt tagtgccaat 120
 ggccactgct gtagcgatgc tcgtggccct ggccctagcc ctagctctga tcgtggctgc 180
 tagcg 185

<210> 15126
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-023-Q1-K1-C10

 <400> 15126

 gctagccttc cctacagcaa ctgcttacat acaacacttc catcttcccg agctcgtatt 60
 cgggcaattg ccaattcaaa taataatata acaccaatgg tggttcccg catcgacttc 120
 tccaagctgg acggcgctga gagggccgaa accctggcgc agatcgccaa tggctgcgag 180
 gagtggggat tcttccagct cgtgaaccac ggcacccgc tggagctgct cgagcgcgtc 240
 aagaaggtgt gtcgcgactg ctaccgnctc cgggaggccg ggttcaaggc gtcggagccg 300
 gtgcgcacgc tggaggcgct cgtcgacgcg gaacggcgcg gcgaggttgt ggcgccggtg 360
 gacgacctgg actgggaaga catcttctac atccacgacg gatgccagtg gccgtccgac 420
 ccgccggcgt tcaaggagac catgcgcgag ta 452

<210> 15127
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-C11

 <400> 15127

gacagaaatg gaagaggaag aagaagagtt gcagttggct aggcacatgg tcaataggag 60
 gcgacgtgta cgcaatgagc gtcgtcatgg tggttcgatt ccagggcgtg ttaggattca 120
 tcgtgatcac atgagcggcg atgcaagaat ccgagcggac tactttggag ccaacccggt 180
 gtacacggat gctcaatttc gtaggaggtt ccgcatgcgt cgccatgtct ttgagcgctt 240
 tgttgatgtt gtgcaacaag tggatcctta ttttattcag cgtccaaatt gtgcgggtga 300
 gattggtctt tctgctctac agaaagttgt tgctgctgtt cgaatccttg cttacggtat 360
 tccggtgat gccgttgacg aatacgtacg tattggggaa tctactgctc atgaggcatt 420
 gaaacacttt tgcacggt 438

<210> 15128
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-023-Q1-K1-C12
 <400> 15128

ctagtgccaa ctgccaaacca ccggcagccg tccgttttcc gcaggcgcga cttccggac 60
 agagccgccg cgtcgcgccg acgagcggtc cttctgccta gtttctccgc ccagcgagcg 120
 gcgggttcct cggagattcc cgctggccgc ggggatccat ttggtgagtt gggagccgga 180
 gtcccgattt ggcggtttcc ctttgggagg tcgtctgatt gaccggcggc ggcggtttgc 240
 tttgtggatg cagtgactgc tcgcgttgcg cctggatctg gtttgggacg gaggagtga 300
 acgcgacggt gatcgtgcga ggtggggacg ccatcagtgc tctgtctggg gtcggtctgt 360
 tctttggctg cagatctgga a 381

<210> 15129
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-023-Q1-K1-C2
 <400> 15129

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 tgcataccaa gatttgtgtg tggcatctga gtgtaatttg gaaccatggc gcagagctgc 120

tttctttgag gaatctggtg aaacttataa aagaatcgtg acaacttggt tgaagccact 180
 tgaggagttt acttcaaaaa ttgctgaagc ccttgaaaga ttttctagtg ataagccaga 240
 attgatgcta caacagtcca aactctgtag tgcatttgat gatttccaga tatgcgcatg 300
 gtgtgctcgg acattgactg ggttaactgc gtgctcacgc caagaagatc ggtat 355

<210> 15130
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C4

<400> 15130

agactggtag gttggtagct gttactgaaa aactaataga aggcaggacg gggaaaggag 60
 atggagctga acagcatccc ctatattgcg tcgtggtcct cctcctcgag ctgcttctac 120
 tacagctaca gtcgctgcgc ctgcagaggt acaagagatg ggaagctggt aacaaaagct 180
 tctgcagctg gtcgtaagcg tgctgctgat tcagtatgtt cacaactctc tgagcagggg 240
 actgaagatt ccatttcagg tcctagatct tcctggcgta taaagaggag agaccttgct 300
 tctgccatth tactccctth tctgattcct cgtgttaaca tctctatcgc ggctgagata 360
 tacgacgcat caattattcg aagtgggtg aagagtgggt taac 404

<210> 15131
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-C5

<400> 15131

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 aaggcatggc gtcgatgaca ggctctcgc agggcgctct gccagcagg cgcgccgaca 120
 gcagaaccag gacggccgct gtcgtcgtca gggcgctccg ggagggcgac gccgttgccg 180
 aagcggggcg tcgcgccgtg atcgggcttg tggccactgg catcgtcggc ggcgccctgt 240
 cgcaagcggc gcgcgccgag accgtcaaga ccatcaagat tggagccccg tcgtcgnct 300
 tcggtggact ccccgggact ctcaactctg accaggcgag ggacttcgac cttcccttga 360

aggagcggtt ctacctgc

378

<210> 15132
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C6

<400> 15132

accggggccga cagcgacaac ggcacatag agaagaacct cggagctgaa tggcacaagg 60
catggcgctcg atgacaggcc tctcgcaggg cgtcctgccc agcaggcgcg cgcacagcag 120
aaccaggacg gccgtcgctcg tcgtcagggc gtccgcggag ggcgacgccg ttgcgcaggc 180
gggcccgcgc gccgtgatcg ggcttgtggc cactggcatc gtcggcgggc ccttgctcga 240
ggcggcgcgcg gccgagaccg tcaagaccat caagattgga gccccgccgc cgccctccgg 300
tggactcccc gggactctca actctgacca ggcgagggac ttcgacctcc ccttgaaaga 360
gcggtttctac ctgcagccgc tgccgccggc ggaggcgggc gcgagggtaa agacgtcggc 420
gcaagacatc atcaacctta agccgctcat cga 453

<210> 15133
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C7

<400> 15133

gcaggtagta ccttggccaa aacgacttag ctatcaagct cgaccgacga ccgaagctaa 60
gctaccaagc tactagtagt cttcttggtc acgttggtga ttgcagcggt cgagcacaca 120
caagctagct agctagccgc tagagctagg gtcgtcggat agatcgacat ggccggcagg 180
gacagggagc cgctggtggt tggtaggtgg gcggcgacgt gctggacccc ttcgtccgga 240
ccaccaacct cagggtcagc ta 262

<210> 15134
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C8

<400> 15134

cacaaccaga agccacccat tggcgtagcg gaggcgatcg gagcatcccg tcccaagagg 60
agagactccg gccggcgacg cgggggaaaa tggggaagac gccggtgcgg atgaaggcgg 120
tggtgtacgc gctgtcgccc ttccagcaga aggtgatgcc ggggctgtgg aaggacatca 180
ccaccaagat ccaccacaag gtcaccgaga actggatctc cgccacgctc ctctcacc 240
ccgtcgtcgg cacctaccaa tacgccatgt ggtacaaaga gcaggagaag ctttcccaca 300
gatactaaat gggatgtcct ccaagttgct gcggcttgct gcagttgaat tttccatgat 360
gggttgata atctgtcaat gtcatttctt tgctcagttt tagttcaacc cattttcacc 420
tttccatatg catatacggg atctgtgcct ggcaaacata ttt 463

<210> 15135

<211> 250

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-D10

<400> 15135

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ggcatccccg acaacgcccc actgcacagc atatcggccg cgatcatccat gcacggcggtg 120
cagaggctgg acttctccga cttctccagg ctcaagcctg agtcgtgctc cgtgagcgct 180
gccgcgcggg aagcgtcctt ctccgacatc cttggcgcgc agtcgtctc caatgccaca 240
cgagagaacg 250

<210> 15136

<211> 311

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-D12

<400> 15136

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ttggtcctgc tggccgttgc ctccgtcgt ggcgcgcgcg gctcgtggga gaatggatat 120
 gggagcatcc tccgcctccc ctccctgtct ccgcgcgcgt tcccccgctc cgcgggccgtc 180
 gacctgatcc acgcgtctaa cctncacccc gccgacgcgt cccctcccct ctccaccgcc 240
 ggcgtagagg gcgcctctgc ccccgcgggg accctcgtcg agaggcccat ccgcatcgcg 300
 tccttcgcga a 311

<210> 15137
 <211> 450
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-023-Q1-K1-D2

<400> 15137

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 gttgccaaag cagccccagg cccagccaag gttggctgtt gccacttctc agctgatggg 120
 aaactgctgg ctactggtgg tcatgataaa aaggctcactt tgtggtgtaa agattctctg 180
 aaccctaaat cttatctgaa agagcactcg tttcttatca ctgatgttag aattagccca 240
 agcatgtcac gccttgctac atnctctttt gacaaaactg ggccggtttg ggatgccgaa 300
 tattccgact attcactaac aactttcagc ggccattcaa caacttgtat ggcacttggg 360
 tttcatccca attaagaggg tatgatatgc tctgggata gtgatgggga aattcccaac 420
 ttgagcctta ataatggtag ctggttgaca 450

<210> 15138
 <211> 85
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-D3

<400> 15138

caagttgttc aaggaatcca gcgaccagga tatggagcac gctgaaaagc tcatggagta 60
 ccaggacaaa cgttgaagca aggtg 85

<210> 15139

<211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-D5

 <400> 15139

 ctgaccatgc cgccgatgcc ggcgtggccg cggcaggacg ccatcgacct ccacaaagca 60
 ttcggaggggt tcggttgcca cagcacgacg gtgaccaaca tcctggcgca ccgcgacgcy 120
 acacagcgcy cgctgatcca gcaggagtac cgggccgtgt ttaaccagga cctggcccg 180
 cgcacgcgt ccgagctgag cggccaccac aagcgggcga tgctgctgtg gatcctggac 240
 ccggccaccc ggcagccac catcctgaag caggcgctca cgggcgacat caccaacctg 300
 cgggc 305

<210> 15140
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-023-Q1-K1-D6

 <400> 15140

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 cggcacggcg gcgcagggca cggacgacaa ggactacaag gagccccgc cggcgccgct 180
 cttegagccc ggngagctca agtctggtc cttctaccgc gccggcatcg ccgagttcgt 240
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 ctncagtgcc gccaccgtcg gcatccaggg catcgnctgg tccttcggcg catgatcttc 360
 gcccttcgct actgcaccgn cgccatctcc ggcgggcaca tcaaccggc ggtgaccttc 420
 gggtgttcc tggcgaggaa gttgtccc 448

<210> 15141
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-D7

<400> 15141

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tggggggcag cgagcgaagc ggtaggtagc atcagtagct gctgccgcca agctagttag 120

tgccaatggc gagggctgtg gcgatgctcg tggccctggc cctggccctg gctctgatcg 180

tggctgcgag cgcagtcggc gcggcagcgc atcagtgcaa cgctgctcag cttgctgcat 240

gcgccccggc gatcatcagc gggttctgcag ccacggctta ctgctgatat aacctgcgcg 300

ctcacgaacc gtgcttttgc cagttcgcgc gcaaccggc atatagcaac tacgtcaaca 360

gccttaacgc ccagcttacg cttacctgct gcggcatagc cgtcccgagc tgctatggct 420

ctagctcgtg ccttgctggg tggatgaatt aaaa 454

<210> 15142

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C1

<400> 15142

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caggatggtg aaccacttcg tccaggagtt caagaggaag aacaagaagg atatcactgg 120

caaccccagg gctctccgga agctgaagac cgcttgtagg agggcgaaga ggactctgtc 180

ttccactgcc cagaccacga ttgagattga ctgctgtat gagggcatcg acttctactc 240

caccatcacc cgtgccaggc ttgaggagct caacatggac ctgttcaaga agtgcattga 300

gcctgttgag aagtgcctga gggatgccaa gatggacaag agcaccgtcc atgacgttgt 360

acttgttggt ggctccacta ggatccccag ggtgcagcaa ctgctccagg acttcttcaa 420

cggcaaggag ctgtgcaaga acattaaccc cga 453

<210> 15143

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-A11

<400> 15143

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cctgggaagc gcttcgaagg gcccatctcg cctgccggga acgtgccggg ctacaaggca 120
aatggcttac aagcatatgc agtgaccttg ataacttacc ttggtttgtg gtggttcggg 180
atatttaacc ctgcaatagt gtatgatcac ttgggggaga tatactctgc tcttgttttt 240
ggaagctttg tattctgtat ttttctctac ataaagggcc atgtatttcc atcttcatct 300
gactctggat cctctgggaa tgtgataatt gacttctact ggggtatgga gctgtaccct 360
cggattggca agtactttga tatcaaagtc ttcaccaact gtcgtttcgg tatgatgtcc 420
tgggctgttc ttgccgtaac ctattgcata aagcagtatg aa 462

<210> 15144
<211> 163
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-023-Q1-K1-A3
<400> 15144

aattctctta tccaccacc catccacact tccccttctt atatatacca tctaattctt 60
tactttaaca acatactctt acacatctac gccaccgttc atactttacg aaagctcttc 120
cctaccacaca accaaaacta cctcttact tcaacctcac ccc 163

<210> 15145
<211> 458
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-A6
<400> 15145

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ctagctctct cttgtcgccg ctctgctcgt tctccatggc gccgacgtgg agctcgccca 120
gccctcccag ctcgatctcc ttcgagccgt aacggcccc tagcgtgcct tcccagccgc 180
tcagcaccgc tccagctcgc cgtggccacc gttgcacatg gccatgtcaa gctggccgctc 240
cctgctcctt ccatcatcga cctcacacag cgccgacctc ggccatatcc tcatctctgc 300

atcgacgcgc tctgaccctg ctgtcgctgg tgaagggtcca cacgcgtcgt cgtttgcac 360
 ctgggttttct cctgctcga tgcgcccacg tcatcgtctt cctgctcgtc ccgtgacgcc 420
 gctcatcaga tctgcgcang ggccctgcgc gacgtcac 458

<210> 15146
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-023-Q1-K1-A7

<400> 15146

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 gaagcatgtt tcgtcccaa ggacaaccac agttcattct aatccaatcc ctccaaatgg 120
 aacctccag gtctctcaa agattccac aggtagacca ggaagagtgg ttggtccagt 180
 aataccattt gagaacgcag ctgcagttga tccatacagc caacgtaagg tctcaaggaa 240
 tccagtactt nctccaacca cgtcgaacaa tgtagcctat gcctaccacc cgaaggtaga 300
 ccacttaaac cgaaaacttc caccagaacc tgaaaaagga ccgaatgcag taccagccag 360
 aacagcgggt catggacgcc aaggtagtat cacagatgtc cctgacttg aggtcttct 420
 actacatacc aaaaggtgtc ccaaaggctg at 452

<210> 15147
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B1

<400> 15147

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 cgacgccggg gcgttctctt gaggaaagct cgtagctgcc cccgcgcaa gctccggtct 120
 ttcttgccc tgacctctc tccccgcgc cggcgccgc tgagcacgcc gcgttggct 180
 tgatgctcga cttctgcgc cccacgggc ccgccaagct cccggttgcg tctgtcgtg 240
 ggggtgcgagt cgccggcagg tggttgtgg gatcggggc cgttggggcg gtgcgccatg 300
 gcgtcttcgc gcgggctca tcttcggtt cccgatcgg gctcgattct cagaattttc 360

aca

363

<210> 15148
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B12

<400> 15148

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ttcgggtttc cagctctagc tagccttagc ctcgtccaag ggacaaagg gccaccatga 120
gcgtggtgat cctggacggc tccacggtgc gcggcttcgt ggcgacgag gcggccttcg 180
cgcgacgcct ggacgcgcgg ttgcgcgcgc tggacgcaa cggcgacggc gtgctgtccc 240
gcgccgagct ccggcgcgcg ctcgagtcct tccgcctcct cgacggcggc ggcttcgggt 300
ccgcccagcc ggcgcgcgtc cccgcgcagg tcgccgcgct ctacgacgcc gtcttcgagc 360
agttcgacgc cgaccacagc ggcgcgcgtc acccgcgcca gttccacgac gagatgcgcc 420
gcatcatgct cgccgtcgcc gacgggc 447

<210> 15149
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B2

<400> 15149

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aagattctct gccaaactgca agaccatgag aggatccgca ccatctcctt cgacgacaag 180
agcaagacgg tcaccatggt gggcccgttc gaccgcgagc ggctcgcgtg caagctccgc 240
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<210> 15150
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B5

<400> 15150

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gtggaactga tccctggcat ccccgacgac gtggccgtgg actgcctggc gcgcgtcccc 180
cacgcctccc accgcgcgat gcgcggggtc tgccgcggct ggcgagcgc cgccgcggcg 240
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cagttcggga acccggtccg cgacgacggg gcccaaggag ggcgacgacg gccccggagc 360
accccggtgt acggcgtgcc ggtgtacaac gtgacaacgg ccgagtggcg gcggtagcgc 420
ggcgcgcccc ccgtggtgcc ggtgttcg 448

<210> 15151

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B9

<400> 15151

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catgaccaac cgcctcctgg cccgcaagca attcgtgctt gaggtgatcc accccggccg 180
cgccaacgtc tccaaggcgg agttgaagga gaggttgcc aaggcgtacg aggtgaagga 240
cccaaacc atctttgtct tcaagttccg caccacttc ggaggaggaa agtccactgg 300
tttcggcctc atctacgaca acctggaggc tgccaagaag ttcaagccga aataccgcct 360
aatcaggaat ggccttgc 378

<210> 15152

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-A1

<400> 15152

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 tcgggttggg cggcaaggcg aagcctgctc cgaagaaggt ggcaagaca tcgacctcct 180
 ctgaccggcc gctgtggttc cccggcgccg tggcgcccg ctacctggac ggctcgctgg 240
 tcggcgactc cgggttcgac ccgttcggtc tcgggaagcc cgtggagtac ctgcagttcg 300
 agttggactc gcttgaccag aacctggcca agattgaggc cggcggcac atcggcaccc 360
 ggttcgagtc ctccgaagtc aagt 384

<210> 15153
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-F3
 <400> 15153

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 gcgcggcgga gatggagctc aagcccggca tgtcggcgct cgtcaccggc ggcgctccg 180
 gcatcgggaa agcactttgt attgcttttg caaggagggg tttattttgt actgtcgttg 240
 atttttcaga ggaaaatgga ggagaagtgg ctacataagt tcaaaaggaa attgccaaat 300
 tcaacgagaa tttaaaaatc ccatctccat aattggtaag tgggaaggta ggaatgccga 360
 ttatctgcc gggttggttg agaagcctgg accggccttc cat 403

<210> 15154
 <211> 315
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-F4
 <400> 15154

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 cgacggcgag cgccgcggcc tcggtgacgc cttcgccgcy gccgatacca ggcagctacg 180

ggccaccggt gctgggcccg ctacgggacc ggctcgacta cttctgggtc cagagccagg 240
 acgagttctt ccggaagcgc gcggcggcac accgcagcac cgtgttccgc accaacattc 300
 cgccacctt tccct 315

<210> 15155
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-F5

<400> 15155

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 catgcacaag atcgaggaga agctccacat ggggggcgac cacaagaata aggaggagga 120
 gcaccacaag aaggccgagg agcaccacaa gaaggaggag ggggagcacc acaagaagga 180
 cggcggggag cacaaggaag gcatcgtgga gaagatcaag gacaagatca ccggcgagca 240
 cggcgacaag tccggcgccc acaaggagag gaaggacagg aggaagaagg ttaaga 296

<210> 15156
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-F6

<400> 15156

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 agaagtaccc tgacctggag gagacgagca ccgccgcgca ggccaccgtc gtcctcggcg 180
 tggccccgga gaagaaggcc gcgcccgagt tcgtcgaggc cgcggcggag tccggcgagg 240
 gccgccacgg ctgcaacttc ggtggccact tcaagtgcc accctggaac tggatgacac 300
 atcgatcgac caccattgat attaataata actatctaac ttggggtggt tgggtggacca 360
 ttattaacca aggccaacct gcttg 385

<210> 15157
 <211> 223

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-F7
 <400> 15157
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 atggaatgta ctgcatggtg gaaagagttg ttcactactc ataactggtg aacattatcc 120
 gcaacatgta tctaccctt cctctttcgg acaattgtgc acatgacaag ctcgtttgtt 180
 ctaccctacc aagtatcata cgagaacata gaaagcataa tca 223

<210> 15158
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-022-Q1-K1-F8
 <400> 15158
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 ctgccgagac ggaggaggca ccaccaggcg gcgcggagag cgatgctacg gcgatggaag 120
 cggcggcgga gtactcgtgg ctccagctcc gcttcgaccg cccccctcgc cggctctacc 180
 acttcgcccc ccagttccgc tccgccactt cctctggcag caatagtagc ggcgagaact 240
 tctcaaggg cgtaaagtgg tccgccgacg ggtcctnctt ccttaacagg ctcgacgata 300
 actccctccg gttggtttac ttaccggaag aagcctacat tgcggccgaa ccc 353

<210> 15159
 <211> 250
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-G1
 <400> 15159
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 ctgagctctc tgttgaggat aacacacttg aaccaaagt aaatttaaata gatactcccc 120
 taagtcgttt aatagaaaat ggaaagaaac catcaaatct ggcgtccagt catgaaactc 180

cattatcagt gggagaaatt cttttgtctt tggatgctgg agttccatta cctggtcgtg 240
cagctgaata 250

<210> 15160
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-G10

<400> 15160

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ctgttacatt ttcattctga ctgctctga ctatactctc accgtcacca cctacactct 120
atactaccta gctattaact acggccaaac aaacaactcg atc 163

<210> 15161
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-G4

<400> 15161

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catgcgcgcg cgctacaac gagagctagc agcagtagcg gccgttatct tgtcgctccg 120
gatccgttcg tgtacccaag tcccagccta gatgccgcag atggaggggt ccaactgatca 180
gatcgccgcc ggctgggttcg ctaaggagcc ggcttccgag cggcccgtgg gcttgccgag 240
gaccggctct tccagtcgcc ttaacgcgca ggccccgaa ttcgtgcccc gggggccggc 300
ggcaccggca ccggcgggtg ggctggcggc ttcggcgga gtgatccgga tggtcgccgg 360
gccttccccg gcggcgcgtg gggg 384

<210> 15162
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-G8

<400> 15162

<400> 15165

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tgtccgcgga gtggatgccc ggccagccac gccctgccc cctcgacggc tectctcccg 180

gggacttcgg cttcgatccg ctgggcctcg cgaccgtgcc ggagaacttc gagcggttca 240

aggagtcaga ggtgtaccac tgcgctggg ccatgcttgc cgtccccggg atcctggtgc 300

cggaagctct tggcctgggc aactgggtga aagcgcaaga atgggcgggc gtccccggcg 360

ggcaagccac gtacctgggc gcccgggtgc cgtggggcac gc 402

<210> 15166

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-H5

<400> 15166

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cgcgtgcgca gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtcgggtggag agatggccac 120

agcttacgct cccatggcga gccaggatgat gaagagcagc ctgcgtcgtgc actcgaggcc 180

gaggggcctg tcaggcgtg ctgcgctcac gaggcggccc ggccgggttaa ccgtcaaggc 240

catccagccc gagaaggcaa cgtaccaggt ggtgcagcca atcaacggcg accctttaat 300

cggaagcttg aaaacgccgg taacttgaag ccggttggtg gcttgggtact tttcaaactt 360

tcgggcttac ggaacggcc 379

<210> 15167

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-H6

<400> 15167

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ctgcgcttcg gcttgccgtc gacgatcatc atcacggcga tcggcctgct catcgtcgcc 120

agttactgaa cccacacaa gctagggctct cggcctcgca caaacggcgg ggtgtgtagc 180
cagatggcag gcagaacgct gcagaaaaca gcatgcagca ctgcctgaca tcgaaggaga 240
tgttgtagctg attggccttt gtttgtacgt tgtaacagtt tttatgtcgt tcgtgtaagt 300
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tatgcgcaag actagtagat ggcattggagt atagaaggcc ggcaccactg ttctaggaag 420
gcaaaaaactt gctctagcta gttcaggtag gagagccggc gaaaa 465

<210> 15168
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-H8

<400> 15168

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agcattcgga gaggagagag gaggcctccg agcttgcccc cttegacccg accaagaaga 180
agaaaaagaa gaaggttgtc atccaagaac cttctgatga agtggacaag cttgcaaaag 240
agacagaaac actggcagtc gcagaaccgc gtggacttaa cttcaatgga atggagaaga 300
aaaagaagaa gccggtggat cttgattcaa ctcttgatga gcttggagat ggggaggaca 360
ctcaagatga tcaagctgta gaggaacaag gggaaggcat tgtgctggga agtgtcccta 420
catacccttg ggagggaact gatcgggatt attaatatga agagctgc 468

<210> 15169
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-H9

<400> 15169

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accgcccgcc gccgagtcgc gcgaaacaac cgctgtagt tccagagtag tacctcatgg 120
cgcccatatc gtcacttccc ttgcgggcgc tgccgggagc cgccgagtgg aggccttcgt 180

cgacggcggc ggccgtctcc ggcgcgctcg tgctcagcgc gaggtctcgc cggggctcgc 240
gctcgggtggt tcgattgtgt ggcaacaccg gtggagtccc aaccaatggt ccaaaaacca 300
aa 302

<210> 15170
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-F2

<400> 15170

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tactgaagca tacaagtggg tggcacttgc tgcaaagcag caacattact cagcttacia 180
tggtattgggt tatctatatg tttaaaggcta tgggggtggag aagaaaaacc tgacaaaagc 240
aaaggaactt tttgaacttg cagccgagaa taaggaagct gggggacatt ataaccttgg 300
gtgtgtgtat ctttaagggt ttgggtgtgaa aagggatgta attagagcct gccatctttt 360
ggttcattgca attaatgctt ggcaacaaa agctattta 399

<210> 15171
<211> 252
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-D3

<400> 15171

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gggcagcagc agtagcgtgg cgaaggggtc accaccacca gccttccagt tccagtgcag 180
ggcgtcgact ttcgcggcgg acaccagcct ncggctcgag ctggacgaga accccgaggg 240
gatcatctgg gg 252

<210> 15172
<211> 402

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-022-Q1-K1-D5
 <400> 15172

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 ctcgagctcg tccgctccac caatcggaag ggcctctctt accgcctcgg catcaaccgc 120
 ttccgggaca tgagctggga ggagttccgt gcgacccggc tcggcgagc ccagaactgc 180
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 aaagactgga gggaggatgg gattgtgagc ccagtgaagaa accagggcca ctgtggatct 300
 tctgaacct taacaactac tgggccactg gaggtgctt atcccaagcc acctgccagg 360
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<210> 15173
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-D7
 <400> 15173

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 tagtgcccc atcactttct tcttgctgg aagcatctgc ttcagcatct gatgagttca 120
 aaaaataatt ggtatctaac tcagaactga tggagaattt ggttgtagc acatgacatg 180
 ggtagagaaa tggttatctg gcaactgcat ttgttagccc aaatgctatg tcaattgctg 240
 atttggagga aatccacaat cttgcatgcc cacctcctg tcaaaaatga agggcccat 300
 taggatccgg ccaatgagga tttggcagga ttaatatcaa ccgggggcct taacaaattt 360
 ggcaggggta aaattaaggga gaatccaaca ttttttaat 399

<210> 15174
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-D9

<400> 15174

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ctgttttcgcg atcgccagcg accggcggct gggcgtgcag cttcagacca tcgcgacaga 180

ctttcagcgg gtgttcaagg gccacgacaa gctttacatc ggctctctg ggcttgccac 240

tgacgcccag acgctttacc agccgttggt gttcaagcac aagctgtatt aactgtcgga 300

ggaaa 305

<210> 15175

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-E1

<400> 15175

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tcaaattttt ccttgcttta aacatcttct ttatcatctt atgagttcaa aaaataattg 120

gtatctaact taaaactgaa tgagaatttg gttgttagca cattacattg gttgagaaaa 180

tgatatcttg ctactgcatt ttttaacca aatgctattt caattcctta ttataatgaa 240

attcacaatt t 251

<210> 15176

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-E11

<400> 15176

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cgcgacgcca ccatgaagtt caacatcgcg aaccgctcta ccgggtgcca gaagaagctg 120

gaaatcgatg acgaccagaa actacgtgcc ttttatgacc gaaggatctc ccaggaggtc 180

agtggatgat ctctgggtga ggagtttaag ggttatgtct tcaagatcat ggggtgatgt 240

gacaaacaag gcttcccaat gaaacaagga gttctgcctt ctgggtccgtg t 291

<210> 15177
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-E12

 <400> 15177

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 atatgaacta aactgaattg aggacgatat ggcccgttg gtctcttcg gaatcattgg 120
 taaggggcac aacatctttg acgatggcgg attcggtgaa gtccatgctg acccaataaa 180
 gtcgagcg 188

<210> 15178
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-E2

 <400> 15178

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 gcggcgaagc cgcggcagct gagctcgcag ctgcgctgc cgtcgtcgtc ctcccgcggg 180
 ccggccccgc tccgcgcgtc caccgaggag gcggtggagg cgccaagggt gtctgtggcc 240
 ccgcagctgg accccagcac gccgtccccg atctttggc 279

<210> 15179
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-E3

 <400> 15179

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 ctggtctcca tgatcgagct tggcaagatc ctgcgcgcgc ggggactgtc cgtaataatt 180

gtcgtcgtcg agccttcctt caacacgggc gctacggcgc ctttcctcgc cggcgtttcc 240
 ggggccaaacc cgtccatttc cttcaacggc ttgcccaaag tcaagcgctt ccggccggta 300
 aggaccaacc ccaagaaggc ctttaactttc aaggcaaccg ggttttccaa ccggaacttc 360
 gggaagttct tggcggcggg ttccca 386

<210> 15180
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-E4
 <400> 15180

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 catagcgaat tttggccaac cgttctctat atgtggacta cactcttcct tatactgagt 120
 caggggtacg catgctgggt ccagttcggg accagagaca gaagactgca tggacattcc 180
 tagaaccttt aacagctgat ctatggtttg gaactggatc cttcgttggt ttcacaggtt 240
 ttatagtttg gtttatcgag cacaagacgg aataagaatt caaaagaacc gcaggcagtc 300
 aaattggatc aagcttctaa ttcttcttct taacacttgg atttgctcat aaggagagga 360
 ttgtgaacca tttatcaaga attgcaatag ttggttggct tttgtgggt ctaatatt 418

<210> 15181
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-E5
 <400> 15181

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 gagtgggtgt tcgcattagt gaaatagatc ccatgaaatg gcctggctcg aagtggagaa 180
 gcctgctggt aagatgggag gacggtgctg aatgtaatgg ccaaaataga gtatctccat 240
 gggagatcga gatagctggt ggttctgtct ctgtttctaa ttctcttct gcactagtt 300
 ctaaaggacc caagttgggt cctaaggga atttgaacgt tcaaccattg tgaaatggtg 360

gtactgactc attggaacct ggaaggttac caag

394

<210> 15182

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-E6

<400> 15182

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gcgggtggat tgctttctcta gtggcttcgg ggttttcgggt tgtcccgatt gcattctcaga 120

catggaaggc ttactttggg ctaatgcgaa gtgaaacacc aaaggatgat agcagacaag 180

ctgcttcaat tttgctccct gacaaagatc agtccttgaa gttggaaaaa caccatgggc 240

gagcagaggc tctttctgtta acagcctatg ggaaaaggct tggctctggcc tctgggaagg 300

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g 361

<210> 15183

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-E8

<400> 15183

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ctggaacacc aggaagagga tcttcggaag aaaaaagaag ctgagccagt tttagttcgc 120

cttcagcgac tctcggacag cccgcactct gatgattatg ccctgaacag agcactccgc 180

gatcgtctta ggagccaaaa aaaagagagt tgctgaagag aagaagtccg cgagaaagat 240

aggccttggt gttccggtct tggcttcctt cggaaaaaaa tccaacggaa cgggttcaat 300

ggaagttgga ttggaatttg ggaaaagccg aagggattag aaggcccga ttaaagggtgg 360

cttcattctt tcggagtcac taagctt 387

<210> 15184

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-022-Q1-K1-F1

<400> 15184

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cgcgcccaag cacaaccacg ccctgggtccg cgctccagcc ctccccatcc tcttcttget 120

atgggtgcca gccgagctct atcccccttc tgccatggcc gacgcccctc cctgctgcag 180

ctcgatgccc tncctgcag caagcagtgc cctccccctt ctgcaccaag tgggtgcccc 240

cagcccttcc ttgggttcaa tggccggccc cttttgctgt tccaatgggg acctttaaat 300

cccttttggt ttaactagtc ctggtaaaaa ccctgttaat ttaaggttta aggggggtga 360

atggggccaa attgaagtaa aaccctggaa aattaagggt aaaaaaagg taaggtaaac 420

ccttcctaag gggt 434

<210> 15185

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-F10

<400> 15185

gtcctcgctg atgtcctgaa cgcagctagc gaggaacttg agcaagagcc aagaggcgcc 60

cgtgtgcggt tctgccacgt gtcacgtaat cgacgtttcc ccgccttccg cggttctgcc 120

gtcgtgcgcy cgtaacgcgc tcacctgacc ctcatgacag cacgaatccc aaagcagaag 180

gcaaaaaccc cgtaatccca gccccagggc ccaggctccc ggatcgtcta atcaatcccc 240

cattccccat tgcaacgcgt ctccgctagg gttttactcc gcagccacac c 291

<210> 15186

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-022-Q1-K1-F11

<400> 15186

gtccgttcta gaatctagac acggcaatga agcccaggcc tctcggttgc ggttgcggtt 60
 gcgtcccggc ggcggtaggg tgctcggtt gggcatggag gccgactccg aggccgcgcg 120
 gnggagggag ggcagcaggg gtgtcgccca agtgctcgca ctccggcggc gcggcgggag 180
 cggtagagtc ggaggaccgc cgccgcgagg tgctgtaccg cccgggtggag ctgcccggga 240
 cggggtacgg gtccggagctg gaagcgcgga tcgagaaagt catctacgcc tgccgcttca 300
 tgaccttctt cggaaattgt ggcttgctcc tcggctctgt cccatg 346

<210> 15187
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-F12

<400> 15187
 gtccctttct tcttcttctt cttgattgat aggtgcgccg aagcttggtt tggtgggtgg 60
 cctgggtctc tgctgtctcg tctcgtctcg tcttcgcccc ggccgccacc acctgcaggc 120
 tatactagct agctattaag tccggccaac caagcagctc gatcaggctc gtcgacggcg 180
 gggacagttc ggagggagga ggcggccgga gaccgaagga cgcctaccat caactcgcgg 240
 tcctggccgc gctgcaaaaa aataa 265

<210> 15188
 <211> 230
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-D2

<400> 15188
 caggatagag agggagagga gcagaagaga gcagaggtcc agaggcgcag aaggcagtcg 60
 cgggcaggag gaagaggaag aagaagcggc agcgagcgag gatgccgtgc ctgaacgtgt 120
 cgaccaacgt gaacctggag ggggtggaca ctttcgccat cctcgccgaa gcctccaagt 180
 ccgtcgccaa catcatcggc aagcccagag cctacgtgat ggttggttctc 230

<210> 15189
 <211> 250
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-022-Q1-K1-B2

<400> 15189

ccaaggtctt cccgtgcgcg ctatcctgcg cagcacccgt gacctgctcg gcctaategt 60

cccgtttacc gtcacctcag ctgcgccgag ctcttgccct gtcgcgcgtg ctaaccgtct 120

atgtcgtcgc cggacttgtc tctctgacca tcttggcgtt gntatttctt gctgctccat 180

gacatcgctg agccattctc agttgctcgc cgctgaagct cccctgttgg ctgcgtcctg 240

ctcgcccttg 250

<210> 15190

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-B3

<400> 15190

cgaaaaggaa aacttggtgcc tttatggcta cccaacgaa acatgggaag taactttgcc 60

agcagaggaa gttcctccag agatccctga accagctttg ggtataaact ttgctaggga 120

tggcatgaac gagaaggatt gggtggcggt agttgctgct cacagcgatg cctgggttact 180

agctgttgca ttctactttg cagcccgggt tgggtttgac aaagaggcca ggcggcgact 240

cttaacatga taaataactt gccacaata ttt 273

<210> 15191

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-B6

<400> 15191

ttcccgctgcg cgctatcctg cgctcgcaact tttacctgct cggcctaate gtcccggtta 60

ccgctccctc agctcgcccg agctcctgcc ctgctcgccg tgctaaccgt ctatgtcgtc 120

accggacttg tctcctcgac catcttggcg ttgatatttc ctgctgctcc atgacatcgt 180

ccagccattc tcagttgctc gccgtcaaag ctcccctggt 220

<210> 15192
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-B7

<400> 15192

gcaaggaatc ccccgatggc tcatcgcggt ctctctctcc tctctctcgc gtcggccgcc 60
 ggggttgccg ccgccgtcga cgcgaggagc ccgctgatcc ggcaggtggt tcccgttgga 120
 gatgacaacg atctggagct gaacgcggag tcccatttcc tgagcttcgt gcagcggttc 180
 ggcaagtcct acaaggacgc cgacgagcac gcgtaccggc tgtccgtttt cagggccaac 240
 ctgccccgcg cgcgcgggca caatctgctg aacccttcgg ggaaccacgg gtcactaaag 300
 ttttcgaact taaccgggga aaattcccgc ggaactaact tgggcttcgg aagttccggc 360
 gcgcttttct taaaaaactc ggggagttcg cccaagaagc ccccg 405

<210> 15193
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-B8

<400> 15193

ctgagattgt tcgttcgcct agagctccaa cccattcttt caagaagccg attggtgcta 60
 aaaggcctgg aaataagact ggtggacttg gtgcacggaa gcttacatca aagccaaatg 120
 aaagcctcta tgagcagaag cccgaggaac cagctccgt cctgccatca tcggtgattg 180
 agagtactac aactaggagc aaatcacata ctttcgatt tgattacctt gaaaatgcaa 240
 ctgctcttaa aaatgggaat agcttaaaaa ggaaccacct gaatggacct tttgcaaccc 300
 caatggcgtc aaatttcttt gctgaatttg ggattgacag tggatattag aaaaaatcta 360
 cgttcaagtc attcaaagtg cagatcgagg aaagcacgga agccagacag aaattcttaa 420
 aagcgaaatc aatttcttcc tctcagattt tt 452

<210> 15194
 <211> 453

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-B9

 <400> 15194

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 gttgaggctt ctgatcaagt gcctcttaac aggggtgaaa ttgattcatc ggtcctatgg 120
 gaggagggct tatttattct ctacaaaggc atcaatctct tgtacttgaa gaaccaaata 180
 ttaggagcag aagatgaaaa cgccgggtcac tgaagtaatt acaaggaccc actggaatgc 240
 attctctatt tcgaaaactg atgtctcaaa gttcatcccg aatatcccag catccactcc 300
 gaaaatggcc acaacaaatg ttgcgggtcgt tagcagcaat tcaaactgga tcagctgggt 360
 ccgcacattg tccagctgaa tgttgatgaa gtcttcagtg tcatcgatgt actctttaag 420
 cgatgtcagc ttgttcagag tgctgtcgat aac 453

<210> 15195
 <211> 226
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-022-Q1-K1-C1

 <400> 15195

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 cgcggccngt gttcgcgccg ccgtcgacca cggccggccc ctgcttctgc ccgagcgagc 120
 cgcacgccat gtcatectg gctatgacct acatgcggct gcgctagctg atgtectgca 180
 ctcgcacgtg cagtgggtata cgagaggccg tcacgacgga cccgct 226

<210> 15196
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-C11

 <400> 15196

 gtccttctcc taagcaaagc cccctcgctt ttggcgtatg cccccgctgg cgcgcccatg 60

attgccgccc attcctccgc ccgttcagtc cagcaaccct tgctgctgca gtgctgcggc 120
tagttcgggtg gcggggaagg aggaggaggc gagatcttgg agtggggcga agcggagatg 180
tcgttgccgt cgaacaaccg gaggacgtgc tcccggagca gctctgcgcg gtccaagcac 240
agcgcgccgg tggtggcaca gacgcccgtg gacgcgcagc tgcacgccga gttcgagggc 300
tcccagcgcc atttcgacta ctctcgtcg gtgggcg 337

<210> 15197
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C12

<400> 15197

gccccgcact tccgcccagag ggccgtgcgg tccgctatcc gggcgcaggc gtccgccgtc 60
gaggcgcccg ccacggccaa ggccaagaag gagtccaaga agcaggagga gggcgtcgtc 120
accaacctat acaagcccaa ggagccgtac gtcggcaggt gccttctcaa caccaagatc 180
accggcgacg acgcgcgggt ggagacgtgg cacatggtct tcagcaccga aggcattgatc 240
ccgtacagag aaggccagtc catcggcgtc atcgt 275

<210> 15198
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C3

<400> 15198

gcttatgatg acagtcgtca ccgtctttct ttcaacaatc agtttcaaga tcagggttca 60
gctgatcgcg ttgcagatcc atacttctat atgcctcaac aaccttctct gacggttgaa 120
tcaggcacia ggacgcaaac agcgaacaat gacttgcgtt tttggagtga gcggaattcg 180
atgtatggta atccaagtga ccaacagcag ggtttcagct ttggggcaaa cacatcaagt 240
tggtgaacc agccactttc ccaggttgga caggcacgaa tggtaaggc ggattccacc 300
ggtggtccat ttggtttaaa ggagacttga gaaagccatg ggttcaaaat atttggtttc 360
caaggtgatt ccaccattc attaact 387

<210> 15199
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-C4

 <400> 15199

 gctcagcatc cagtcagtca gtcctcgatc ttctatcctc tactgcctgc atcgattcca 60
 tctgcgatcg attccattcc atgcatcgaa gctgcatcag ggccatgacg atggcagcta 120
 cgacgactat gatctcagca tcagcgcgatg cgtcgacgtc gcagctgccg acggagttcc 180
 ggttccaccc gaccgacgag gagctcatcc tgcacta 217

<210> 15200
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-022-Q1-K1-C5

 <400> 15200

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 agcggcggga gcgagagcac taccgccagc aggtggcccg agctggccac gctgcgcgcc 120
 ctggcgcgcg acgccgcgga gcagctgcgg ctgccgcggg ccggcacgtc ggcgtcggcg 180
 tcggcgtcgt cgtcgccgtg gcgcggggcg gaggaccacc tncacggcca cggcaagacg 240
 gccaaaggta tgcacctgct gctctgggga cccaagtga gcggcgagag gccaccgac 300
 cggccgcggt gctcggtttg ctctggccgg caatcggccc ggaaggactg gactggaccg 360
 gacctattca cctatatact acgacctgca catg 394

<210> 15201
 <211> 225
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-C6

 <400> 15201

 cacgagcgag caagtcacct atccccattt ctaaattctt aaccctagcg tactgagctt 60

ggcgtggcgg cggcagtgtc cggggctccc agcggcacag tcgtgcggcg cgagcgcagc 120
ctctgtgcct aggctgcgcc tgcacgtcgg cggggggcac gcggtggcta ataggctgga 180
ggcactgccc gagcggctgc ccaccagtgg tccagctccc actat 225

<210> 15202
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C8

<400> 15202

ctatgatgtt gtaaaggctc acaactccaa cagcaaaatt attggttttc ttggaggaac 60
cgagggatta tttgcacaga aaactattga aatcactgat gaagctcttc catcctataa 120
aatcaaggt ggttatgaca tgcttggtcg tacaaggat cagatcaaaa caactgaacc 180
ggtaaagggc accataaggt catggtaagc attggaattg gacccttctg gtattaatgg 240
aagggttaaa ttcaacaacg gttcctgtta acttggttaa acctttgctt aattgaaatg 300
gtcaaccaaa ggtagtggtg g 321

<210> 15203
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-D10

<400> 15203

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tcggcgccaa tggcttacta ccaggaggtg gactactgct cggaggaggt gaggtcgggtg 120
gccccggccg gtttcggccg ccacggaggc ggcgtccagc agcacgtcgt caaggagaag 180
ttcaggaggg tcgacacggt ctcacgcgcc ggcgccaacc accaccacca ccaccatggt 240
caccacggcg gacacggctt cgtggtgctg gagaccaggg tcggagggga ca 292

<210> 15204
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-D11

<400> 15204

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gagggcacac cacctttccc cactccgata gaatcgatgg ccgccgaggg cgagaagaag 120
atgataaccc tcaaaagctc cgatggcgag gagttcgagg tggaagaggc ggtggcgatg 180
gagtcgcaga ccatccgcca catgatcgag gatgactgcg ccgacaacgg catccctctt 240
cctaacgtca actccaagat cctatccaag gtaatcgagt actgcaacat gcacgtaca 299

<210> 15205

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-D12

<400> 15205

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gttgtcaaga ctcagttgta cacactaact ggtgtgccac ctgaacgcca aaaaattatg 120
gtgaagggag gaatattgaa ggacgatgca gattggtcta ctttgggagt gaaagatggc 180
caaaagttga tgatgatagg cacggctgat gagattgtga aagctccgga gaa 233

<210> 15206

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-H12

<400> 15206

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caggcacaca gctagctagc agatcgtttc gagtgaagat ccaaagaggt agagagatgg 120
aaaggatgag ttcgctgctg cagtactggg tggaggagca caagctctca accatcggag 180
ccgtgtgggc gacagcgggtg ggcgcgtctg tggcgtagag cccgcggcag gcgccggcgc 240
aggcgaccgg catgc 255

<210> 15207
 <211> 157
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-H2

 <400> 15207

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 cagagctgcc ccattgccag aacagcacag atcaacacca gacccatggg cagcaaaaagc 120
 agcctggcga aagggtcacc accaccaacc ttacagt 157

<210> 15208
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-021-Q1-K1-H6

 <400> 15208

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 atcgatggca tgcgtcagca ccttccagag ctgccccatt gccagaagag caaagatcaa 120
 caccaggtcc aggggagca gcagtagcgt gggaagggg tcaccaccac cagccttcca 180
 gttccagtgc agggcgctga ctttcgcggc ggacaaccac ctncggctcg agctggacga 240
 gaaccccgaa gcgatcatct cgggggcctt gcccggaac tgctcccttc ttagctacga 300
 cgaccttcgg gcctacctcg agtcgcaaga gacggcgggc caagcagacg atcagcgcg 360
 cgtggcg 367

<210> 15209
 <211> 151
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-A1

 <400> 15209

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 aaggccagat ttctctagtt ttcattctct atcatactac cattgcttaa cctgacctga 120

acaaaaattga ataccttatg gcagtgttca a

151

<210> 15210
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-A11

<400> 15210

ccatacatgg acagctataa catcaciaaac gcgctagatc tcaaaagggg cacggaggat 60
caggatggga agaccataaa acttcaaata acgtgttaca cgctgttta tgatcgtctt 120
cacttataat catttctctg ctactaccgc ggagctcatg gaatcattac tgtatatgac 180
gtgacagacc aagaaagctt caataatgtg aagcaatggt tgaacgagat agaccgttat 240
gcaagtgata atgttaacaa gctccttgta gggaacaaga gtgaccttac tgccaacaaa 300
gttgtggcaa ctgagacagc aaaagcggtta gctgatgaga tgggcatccc aatcatggag 360
acgagtgcc aaaaacgcaa caacgtggag caagccctca tggctatggc tgcac 415

<210> 15211
<211> 245
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-A12

<400> 15211

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cctgctcata gccgccatgg cggcggtcaa cctagtctac ttcgtcgctt gcgcgcgtg 120
gtacagggtc aagaaccggg ccgtcgccga cgctgagcag ctggagctgg agttagaggg 180
aaaggccgca gcgcctnctg tctgaatact gaagagctat tttcttttct tctctctcat 240
caatc 245

<210> 15212
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-A2

<400> 15212
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 agaggaggtg cgggtgggcgc ctcggcggcg atctggcggg gaggatatgg ccagcgggaa 120
 ggagccgatac gaggtcaggt ttcgtctctt cgacggcacg gatatcgggc ctacgaagta 180
 cgatccctcc accacggtct cctcgtctca ggagttcatc ctcgctcggg ggccgcagga 240
 taaggatata gctccaaa 258

<210> 15213
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-A4

<400> 15213
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 agcggcagcg gtggtgcacg tcaacttcta ccgcaactat ggtaagacgt tcaagaaacc 120
 aaggcgctct tatgagaagg agcgtctcga tgctgaactg aagctgggtg gtgagtatgg 180
 gctg 184

<210> 15214
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-A5

<400> 15214
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 tcggcccaaa cgctggaatg gaccatggcc gaactcattg ccaaccgcg ggtgatgagc 120
 aagctccaag gcgagatagc gcgagtcgtc agcgccgatac agacgaccat cgctgaaccg 180
 gacctgaaca aaatggagta cctgagggca gtgttcaaag aggtgcttcg gctccaccca 240
 ccagcgccgc tctcgtccc gcacgaatca acaacgcccg cagttgtgca gggctacgag 300
 atccccggca aaacggctct ctttgtcaac gtgtgg 336

<210> 15215
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-A7

 <400> 15215

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 gcttcccga gtggacgctg tacgtgcagg tgatggaccc ggacacggag gagcagtacg 180
 acttcgaccc gctggacgac accaagacgt ggccggagga cctgctgccg ctccgccccg 240
 tggggaggct ggtgctggac aggaacgt 268

<210> 15216
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-B1

 <400> 15216

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 cagggccccg gccactgccc agtcaagata ctctcccaa tggggcccc agatgtcgtc 120
 tcctcagata atgttgagta cgatttctct gatgtttttg gttccacccc ggtccaaaca 180
 ccaacaaacc tttgtggttt tgggtccggag agtcctgcac ctactgttga gtccaatgaa 240
 gaattttaca gtgatectgt tgtcatcatc aaccgatccc attctctggt cggccaaca 300
 tcacttgta gtcgtcctt gcaactaagc aagccttaat cttgaaaaaa ccagggatcc 360
 ttcggacttg gcaaaggcct ttcaaaaaaa aaaggaaggg acccaaggca acttaatggt 420
 taagaatctg gttatgcttt taccaggga tgggg 455

<210> 15217
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-F5

 <400> 15217

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aatgaagat gggacagtga ttgaaagtga aactgcgaaa gatgatgcca gaacatatgg 120
agttaatttg tcagaatcag atgctgcagt tcgtattcag tctgcctaca gagggtatga 180
tgttcgaaaa tggcaacctt tggataaact ctggaagatc aagcatgtgc atgaacagat 240
gcaagttgtg aggaagcaga ttcaatgcct tttagattct tgcagtaagc caacacaaaa 300
agagcaagtg gccataggtg aaactattat gaatttactc ctgaagcttg acgcaatcca 360
gggcttgcat ccaagtgtaa gggaagctag gaagtctgtt gctcgagaac tgatttgctt 420
gcaggagaag cttgatactt tatgcaaagc agcatctg 458

<210> 15218
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F7

<400> 15218

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tcagcttgct agccatcgcc tctacgtcc agtacactcg ctggcaaaag gggaaaggcc 120
gcttcggcgg ccatgggagg tctgctccct tgaagctgcc tcctggctcc atgggctggc 180
cttaccttgg cgagaccctc cagctttact cccaggaccc cagcttcttc ttcgcttcca 240
aacagaagag gtacggcgag atcttcaaga cgcaccttct gggttgcccg tgcgtgatgc 300
tggcgagccc ggaggcggcg cggttcgtgc tggtgacgca tgcgcacctg ttcaagccga 360
cctaccgcg gagcaaggag cgcgatgatc ggccgtcggc tctcttcttc caccagggcg 420
actaccacct ccgcctccgc aagctcgtcc agggcgcgct 460

<210> 15219
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G1

<400> 15219

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gagcgcccca tcttcatccg tcaaccatgg cgaccagat cagcaagaag aagaagttcg 120
tcagcgacgg tgttttctac gccgagctca atgagatgct gacgcgggag ctggcggagg 180
atggctactc tggcgtggag gtgcgcgtca cgccgatgcg cacggagatc atcatccgcg 240
ccacgcgcac gcagaacgtg ctccggcgaga agggccgcag gatcaggagg cttacctccg 300
tcgtccagaa gaggttcaac ttccctgaga atggcgctga gctttacgcc gagaaggctcg 360
tcaaccgtgg gctctgtgcc a 381

<210> 15220
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G11

<400> 15220

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gagggagtga tcgagctagc tgagctccga tcctcgctag ctaggatacc gccataccac 120
aagtcttctt cacaagttta ggagtgcag caacaagaga tcgatggcct ctgccaccgt 180
gctcaagtcc tccttccttc ccaagaagtc cgaatggggc gccaccaggc aggccgtcgc 240
gcccaggccg tccaccgtct ccatggctgt ccgcgccttc gcctacgccg atgagctcgt 300
gaagaccgcg aaaacgatcg cgtcgccggg gcggggcatc ctggcgatgg acgagtcgaa 360
cgcgacgtgc gggaagcggc tggcgctccat cgggctggag aacacggagg ccaaccggca 420
ggcgtaccgc acgtgctgg tcac 444

<210> 15221
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G12

<400> 15221

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ggattcctgt gccggctgac tggatgtcaa gccctctcga ccgatttgct aggccatgct 120
ttgaaggggt tgtacataac gatgaaagga aagagagcag atctgatgca gacaactcat 180

aatgagataa gaagactaag attgggtctt tcaagaaaaa agcaattaat gcggggaaca 240
aattcaagca ttccttgaaa agggggagcc aaaaaaagta ccaaaagggg gatttccatc 300
agggacataa ggaacgtaaa ggagcttcaa gatgttgaga cattgcgaca ttgcttaatt 360
gatgaggatt tgctgaaacc acagcagcat gattatcaca tgatgttaag gttcctaaaa 420
gcacggaaat ttgaagttga gaaagct 447

<210> 15222
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G4

<400> 15222
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tgattcaaca catctactga gaaagagagg tattgctgat acaattcgta actgttgctt 120
tgaggctgat actcagcttc tgagtttgct ttcttttagca gaatatctct ggccagctct 180
acttttgcct gtaaccggaa agaagatcta tagtgaagaa tacagatcaa atatgccact 240
ttagctatcc agtgcactct ctcatgaacg ggaagttggt gaagattctg aaattcatca 300
gcaagcatta caagctatct atatgatcgt attgcatgat gggtgtcgaa ggtccttttg 360
gtcaattaat ggcccactaa ttctgcaagt tggttatgaa gatgaaaagg acccgaaagt 420
gatggaagca tatgaactc 439

<210> 15223
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G5

<400> 15223
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tattccagct gacgggatgt caagccctat tgaccgatat actaggccat gctatgaagg 120
gtttatacat aactatgaaa ggaaagatag caaatcttat gcagacaact cataaagaga 180
taataagact aagattagct ctttcaagaa aaaagcaatt aatgcgacga acaaattaag 240

gcattcattg agaaggagaa gcaaaaacaaa taccgaaagg cgggattaca tcaatgacat 300
aatggacatt aaagagcttc aagatcttaa acattccgaa atgcttaatt gatgaaaatt 360
tgc 363

<210> 15224
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G7

<400> 15224

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tcaggagaag ctacactagg catgcggcat aacagaagcg ctcatcctca ggccggcatg 120
cgtctaacgt gaagaactac gattctgctc tgaaaggcat tgaaggctct cattctgatg 180
gctacgagag gggttcagcac tagagccgca agaaattcta catgcactgt aaaaatgata 240
atcaggtggt aagcatcgtg tttactgttc gggttttgga tcatcacgac atgaaatgct 300
agaacgagga tctgatcacg gactgtgcac gtacacgtgg tgctttaagc atgtgtaaca 360
aacggtacta tctgacgcgc ttcatgccta gctatcataa catcgtgaag gtgta 415

<210> 15225
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-021-Q1-K1-G8

<400> 15225

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tccgcagcag cgagcggcgc atggcacggt ctccaccgtg gcgcctgagc gtctacccgt 120
cgaggggttc cgatctgggc cagcgaagga ggaggacacg gtcggtctc cgtctgccga 180
ctactactca gagctaaaga ccctggagca tgccgagaaa accaaaaaat atcagggtaa 240
gcttgacgca cggttgaagg ccaaataatt ttccaacaag acttttgaag aaggatatgt 300
gtttgaagaa attgttatag aatcaaagac cgtccggcta agcaggtggc cgtttacaag 360

gttgttttgca gatccagcaa gactttgccc aganaagagc tctaattgaga agggcatttc 420
tncacctctg gctgggtgaag ccatgtcaga tgactaacc 459

<210> 15226
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G9

<400> 15226

gcctgaccag ctaggatcag cggaagcagc aatgggtgatg gcgtcgtcga gcgggctgag 60
gagctgcagc gccgtgggag tgcccagcct gctgggtccg tcgtcccggc ccggccgcct 120
ggcgccgttc tgcgccaacg ccaccacctc tggccgcgtc accatgtccg cggagtggat 180
gcccggccag ccacgcccctg cccacctcga cggtcctct c 221

<210> 15227
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-H1

<400> 15227

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tcgggagcaa gaccgcccac ggcccggccc gcatgtgcat ggcagtgagc ttactggcca 120
atgaggtgtc ggacctgagc atcggttagc cggccgtgag gtcgtccccg atctccgtcg 180
tcgcccgcga ccttgccgac gcgtcctga tggtagcccg ctctggcgca ccacctgagc 240
tcgagggtgac tggaccagcg cgcgcccgtc tcggacgggt cggcctagca gacgtgctct 300
gcttctgtg cacctacccc taagcgctcg tgcgcacctg cgtcatgttc tacaagccgg 360
tctacgtgc 369

<210> 15228
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F3

<400> 15228

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gtctttcctg gcgcgcgctg gtcgttccta ccaatttcct tggcctcgct cggtaacttct 120

ctggtcgtgc ttactcccgc tatgtgctca agcacgcccg ccgtcatatc ttcaccgtcc 180

tgcttcatag cgcgcaccttc cactttctgc tcgctcgcg acaggtcaaa accccctggt 240

ggtcgcgcgt tttcttacia acagaccact aattccgcga gctcccttcc taacggtccc 300

tggctccagc tcgggcgggc ctgttcccca tgggt 334

<210> 15229

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E10

<400> 15229

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gctggaagca ccagaccgat cgtgccggcc gagcggcggc gcaggcgag gcgcttacat 120

gggagtagag gcgggcgggt gcgggcggag ggcggtcgtc accgggttct acgtctgggg 180

ctgggagttc ctcaccgccc tccttctctt ctcgcccgcc gtcgcccgcc cagactccta 240

ctagcaagct accaaccttc tttctttcat tcccttaggt agtcagccg tacacacaac 300

aacacacaag tcatcagtta ctagctagtt agtagcctat acaacacata catacatata 360

aaggtgagtg aggttcgcgt gcaagcagag ccaatcgtgc cgatcgagct atatacatag 420

ccggcggcga gggatgggaa gagc 444

<210> 15230

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E11

<400> 15230

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gatgctggat ggccgtcctc cttgatacct tgccctcgca gtgctctcgg tgagctactt 120

tgttttgatt tatcaggaaa tccgtttgct tcatgttatg caggctcaga tctgattgct 180
 ggattcggca tcttacgggc ttgaatagag ctaggactgg gagaaaacaa caaaccgcg 240
 ttggatcctg tatcggttag tccttgccct caaggttcat gttgttttgt tctggtggtc 300
 gagcatcgca tgttctgctt ctggttccag atctggagaa atttctaagt cgtcgtcgtc 360
 gtcgtcgttc ggttcggaac ggatctgagg cgacgatggc ttgaa 405

<210> 15231
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E2

<400> 15231

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 cctggccgcc gtctccgtga agcccgtagc catcaaaggt ctgcgccgca gtcctatctc 120
 cggaaggaag ctgcgcgtcg ccaggccgtc ggcccgtcc atccgcaggc cccgcgcagc 180
 cgccgtggtg gccaaagtac ggcacaagag cgtctacttt gacctgcagc acatcggcaa 240
 caccaccgga cagtgggacc tctacggctc tgacgcgccc tcgccctaca acccgctaca 300
 gagcaagtgc ttcgagacgt tcgcggctcc gttcaccaag agaggtctgc tgctcaagtt 360
 cctgctgctg ggccggcggt cacttctggc ctacgtcagc gcgtc 405

<210> 15232
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E3

<400> 15232

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 aggagctgca gcgcctgtag cgtgcccagc ctgctggcgc cgtcgtcccg gtccggccgc 120
 ctggcgccgt tctgcgcaaa cgccaccacc tctggccgag tcaccatgtc cgcggagtgg 180
 atgcccggcc agccacgccc tgcccacctc gacggctcct ctcccgggga cttcggcttc 240
 gatccgctgg gcctcgcgac cgtgccggag aacttcgagc ggttcaagga gtcagaggtg 300

taccactgcc gctgggcat gcttgccgtc cccgggatcc tggtgccgga agctctgggc 360
 ctgggcaact gggatgaaggc gcatgagtgg gcggccgtcc cgggcgggca ggccacgtac 420
 ctgggcgccc cggtgccgtg gggcacgct 449

<210> 15233
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E5

<400> 15233

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 tgccggaagc tctgggcctg ggcaactggg tgaaggcgca ggagtgggcg gccgtccccg 180
 gcgggcaggc cacgtacctg ggcgccccgg tgccgtgggg cacgctgccg accatcctgg 240
 tgatcgagtt cgtggccatc gccttcgccc agcaccagcg caccatggag aaggaccccc 300
 agaagaagaa gtacccccggc ggcgccttcg acccgctcgg cttctccaag gaccccccca 360
 agttcgagga gtacaagctc aaggagatca agaacggccc cctcgccatg ctggccttcg 420
 tcggcttctg cgtccagcag tcggcgtaac ccggca 456

<210> 15234
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E6

<400> 15234

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 tccatgcttg cccaccccg caccaggag cctgaagctc tggcccttgt caactccatg 180
 aaggcacatg actggacagt cgttcccggc ggacaagcca cgtacctatg cacacctgtg 240
 ccgcgtatca ctcttcggac catactgctg atcgacttcg tgtccataac cttccccccag 300
 caccaactca ccatggagaa agacccccat aagaagaact accc 344

<210> 15235
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E7

<400> 15235

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 ccggagcttc ctgcgcacg gctgcctcct cttcttcgcg caagcaccgg atcttctctc 180
 tcttctttat gcaaggcatt agatctccct tctcttctct tctctggaga gctttttctg 240
 gagcttgggc gtgaggatcc tgcaggcccg tggcgtggag cgcgcgttcc ggcgcgctt 300
 gtcagccgag aaagtcgagc tgggtgaagtc cctccactct acaccaccgg cgggcccata 360
 gcacggcagc ctacgcccc gcgcggtgag ctaatctatt gtcggcatgg atgtagtcac 420
 tccacttcag aaaagagtca gttgcatggc tcct 454

<210> 15236
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E8

<400> 15236

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 tattattact ctgagcacga tcaactccct gcacctgcat gtcagtgaa tcaccggatc 120
 ttctctctc actgctgcct cctcttcttc gctcaagcac ctgatcttcc tctcttctt 180
 tatgcaaggc attagatctc cttctcttct tcttctctgg agaacttttt ctggagcttg 240
 tgcgtgagga tcttgcctgc cggtggcggt tagctcgctg tccaactctc cttgtcaacc 300
 tagaaagtcg agctgggtgaa gtccctccac tctacaccac cggcggtccc atagcacggc 360
 agcctcatcc cccctcggt tagctaactc attgtccgca tggatgtagt cactccactt 420
 cat 423

<210> 15237

<211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-F1

 <400> 15237

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 cgaacgttcg acaccaaccg cgcggcgctg gttgggctgt accaggagac ctccatgctc 180
 accttcgagg gccagaagtt ccagggcccc tccgccattg cctgcaagct cggatctctc 240
 cctttccagg cctgcgagca tcagatcgtc accgtagact gccagccatc ggggtccccag 300
 ggaggcatgc tcgtcttcgt ctccggttcc atacgcaccg gccccgatga gcaccccatc 360
 aagttctccc aggcattcca tttgctgccg gccgattggc ccttattcgt gcagaatgac 420
 atgttccgcc tgaactatgg ctaaagacac ccgatac 457

<210> 15238
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-F10

 <400> 15238

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 aatgatcgaa gacatgtaca aagaagagat tggtagggcg gagctagact ccaactcttc 120
 ctccgacatc gggcagcgaa acaaggacaa agcaccatct cccgaagaaa atgaggacct 180
 gcagacccca acaagccagg cttgccaaac cagccagctc ggccagtcta aagccatcgt 240
 tggtaggagt atgggcttta gtggagtgtc agccggcggc ttccacaccg aggccaaccc 300
 cgacgacagc ttcattgagc tgatgctaaa ggcccagaga cctggtgaaa ccgaaggcac 360
 cgggtctactc cagcatgccg tcgctcacca ctgggacgac ggcgcccggc tcat 414

<210> 15239
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F11

<400> 15239

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 tggcccagat cgagaggtac agcacgaaaa agagaggcat gagagatagg ggaccggagg 180
 gcggcggggc gggggcccaag accgaggggc tcgtgcgcag gaagctgatg aagctcctgt 240
 cgctcgcccc ctccggctgc cgtgctggac ccatcgacga ctccgccgcg tccgtggacc 300
 acgccgccgc cgcgaggagg cgccggaaga agaaggccaa catggccgctc cagctgctgg 360
 gggctgctgc aggtgcgcgc cagcagtggc gcccctcgct cggcgacatc tgcgaggagt 420
 acagcagcag caccgacgcc 440

<210> 15240

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F12

<400> 15240

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 cggatttcaa gatctgggta tccaacaaga atgactcacc agaagtttgc tcggcgggtat 120
 ggttttcttc ttgaggatgt tgcattctca gatccactca gtgtttcagt tgcaattctt 180
 catcagttca acattttacc tgagatgtat caagttggct acacaaagtt gttcttccga 240
 actggtcaga ttggcaacct tgaagatact cggaatcgta ctctgcatgg tattttaagg 300
 gttcaaagct gtttcagggg gcatcaagcc cgtcatcatg caagagaacg aacaagagga 360
 gttttgactc ttcaatcatt cattcgtggg gagaatgcac ggcaaattta ctctcttttg 420
 ttgaggaaac atagagccgc agttg 445

<210> 15241

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-D9

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gatgatacca acatatgaga actcagcttg gccaatcatg gcaatttcat tcgtatcact 120

gcttgctatg tctgctatcc tagttgcatg tttctttgcg aggagacacc agatcagacg 180

ggacagggca agacttcccc gagctcagga gtcccatgga atgagcagtc aattagttaa 240

ggcaatacca agccttattt tcacaaaagt gcaagaagac aactgtacat cagcaacatg 300

cgccatttgc tgggaagact acagtgttg agaaaagata agagtgttac cttgtcgaca 360

caagttccat gcggcttgtg tggacctatg gtcacctca tggagaacat tctgccctgt 420

atgcaagcgg gacgcaagtg ctggaacg 448

<210> 15242

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C12

<400> 15242

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tgggggtcttc ctgcgcgcgc ctccccctgc tctcatccgg tcatcagttt gaggtttcga 120

cctatttcac cagagctgat gggactcatg gatgggaaca aagatgaggc cttgagatct 180

gtcaagcttg caaaatctgc atttgcatct ggggataggc agcgcgcaga aaaattaatt 240

aaaattgctc aaagattgga ccttgggtctt ccacttgatg atttgctgag cccagttgaa 300

aaagttggca tcttgaatat ttctacttgc aaagacaaga ctgaaagaag acaagctctt 360

ttatacccaa aaacaacata agaattctgtt ggtcctttta atgttgataa ggcttacact 420

gaagagaata ttaaagtgg 440

<210> 15243

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C3

<400> 15243

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atcgccgctg gggaaaattc caaccggccg cttgtccatg aagaaggtcc gatccttgaa 120
ccccgcgatg taaccgcccg tccagcttcc tgaccagccc ctacgcccgt gatagcagcg 180
ccccccgctt cgcaag 196

<210> 15244
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C4

<400> 15244

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gtccagctc ccgcaccagc ccctacgccc gtgatagcag ctcccttcgc tgcgcatgcc 180
gcggcggttg accatctcgc cctctgctcc actggtcgga tcgggcccga tgcgcccgtc 240
gatattccta ctaataagat actgtcgcta cccgatgcat ctccagccaa cgcgcccgtg 300
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<210> 15245
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C7

<400> 15245

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gcctgacgag attaccaaag aagagtatgc tgctttctac aagagcttga ccaactactg 180
ggaggagcat ctgcgccgta agcaattctc tgctgagggt cagcttgagt tcaaggctgt 240
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<210> 15246
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-C9

 <400> 15246

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 gagtgcaccc tcagcgggtct cctctctgta gacggcctca aggttttgca tatggacaga 180
 aatgactact atggaggaga ttccacctca ctcaacctta atcagctctg gaagagggttt 240
 agaggggaag acaagcccc agcacatcta ggtgcaagca gagactaaa tgtggacatg 300
 gtgccaaagt ttatgatggc aaatgggaca ttggttcgaa ccctcattca caccgacgtg 360
 acaaagtact tgtcattcaa agctgttgat gggagctatg ttttcagcaa agggaagatt 420
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<210> 15247
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-D10

 <400> 15247

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 cgacgacgac gatggggctg gagatggagg cgatggcggg gtcgatcggc gtgtcgggtg 180
 ccgtgctccg gttcctgctc tgtttcgcgg ccaccatccc gactggcctc ctgtggcgcg 240
 cgggtgcccgg cgccatgggg cgccacctct acgcggggct cactggtgcc acgtctcct 300
 acctctcctt cggggccacc tccaacctcc tcttcgtcgt gccatgacg ctcggttacc 360
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<210> 15248
 <211> 236
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-D11
 <400> 15248
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 atagtctatc gcgtgcactc atctggccgc ctgcaccctc ggccggcggcg gcggcgacgg 120
 cgacgacgac tatggggctg gagatggagg cgatggcgga gtcgatcggc gtgtcgggtgc 180
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<210> 15249
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-D12
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 tcatactgtc agtgtgaatg gtaagctcta cactgctaag cacatactag ttagtggttg 180
 tggccgacca tcgatgccag atatccctgg tatagagcat gtcatagatt cggatgctgc 240
 gctggatttg ccttcaaaac ctgagaaaat tgcaatagtg ggaggtgggt atattgcttt 300
 ggagtttgct ggctttttca agggctaaaa aagtgaagtc catgtgttta ttcgtcaaaag 360
 gaaagtttta agaggatttg atgaagaggt tagagatttt gtcgctgaac aaatgtcttt 420
 aaggggcatac acgtttcata c 441

<210> 15250
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-D7
 <400> 15250
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ggcctcgcct gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180
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gtcaccttct ccacggaaga agcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgggcg tggaggcggc 360
tgcgggcgcg ggtacggtgg tggccgtgga ggctgcggct acggcggttg cgggcgccgt 420
gatggcgcg gctgctacgg cggt 444

<210> 15251
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C11

<400> 15251

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cctatttcac cagagctgat gggactcatg gatgggaaca aagatgaggc cttgagatct 180
gtcaagcttg caaaatctgc atttgcatct ggggataggc agcgcgcaga aaaattaatt 240
aaaattgctc aaagattgga cctggtctt ccacttgatg attggctgac ccagttgaa 300
aaggttggt tcctgaatat ttctactggc aaggccagga ctgaaggagg ccaggctctt 360
tattcccaa aaccaccaa ggattctgtg ggtccttaa aggtggataa ggcttacact 420
gaggagattt ttaaagtggt ccag 444

<210> 15252
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-A6

<400> 15252

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tatcgagcat atgctcctgt tgctagcttg gattctgact tataggcggt caatcataat 180

ccggcacacg gtagcttcgc tccactgtct tttcaaccaa gtcgatgac caattgtgtg 240
aatcaacagt tcctctctta ctatgttgaa ttactaatcg cgcacagtca tcaataaggt 300
aaaactaacc 310

<210> 15253
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-021-Q1-K1-A7
<400> 15253

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ccggttaaggc aggttgccag accccgcgac cccgatcccg atcggtcgct ggcgaggcgg 120
cgtgacctac cccggctcat cctctcaagc cagacggtct ggctgctgtg catccccgtt 180
ttggcggcta ccttacctct ggcaaggcaa tccccctca ccctggcaa gcacgggaga 240
acatggagag tgcttcagat gtacaaatgc aacatcgtgc tgaagattcc gagactacaa 300
ttgagatcaa aatcaagaca ttggattccc agacatacaa tttgcgtgtg aataaatgtg 360
tgccaattcc tctgttgaaa gagaaaattg ctactgtaac tggaatattg tctgaacagc 420
aacgcttgat ttgtcgtggg ag 442

<210> 15254
<211> 356
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-021-Q1-K1-A8
<400> 15254

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ctggtcaaga ccctcactgg aaagactatc accctcgagg tggagtcttc tgacaccatt 120
gacaacgtca aggccaagat ccaggacaag gagggcattc cctcggacca gcagcggctc 180
atctttgctg gcaagcagct cgaggacggt cgcacacttg ccgactacaa catccagaag 240
gagagcacco tccaccttgt tctccgactc acgggaggca tgcagatctt cgtcaagacc 300
ctgactggaa agactatcac cctagagggtg gagtcttctg acaccatcga caacgt 356

<210> 15255
 <211> 182
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-A9

 <400> 15255

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 aggctccagc aagggtggtgc tgttcataaa gggcaccagg gacttcccga attgcgggtt 180
 tt 182

<210> 15256
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-021-Q1-K1-B10

 <400> 15256

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 cggactactc catgtcctgt cccatcggcc gcgtgccgtc ggacacggac ctgcccgtgc 180
 agtgaagga cgtggtgtac gaggacacgc gcggcctccg gctccgcatg taccggccca 240
 ctggcgccgc agccggggag acgaagctgc cgggtgctgt gtacttccac ggcgggcggt 300
 tctgcctgct cagcttcgag gtggccagct tccatgccgg cgcgctccgg ctgcgccgg 360
 agtcccggc gctcgtgctg tccgcggact accgtctccc cgcggcgctg gacgacgccg 420
 agtccgnctt cgctggctc cgcgcc 447

<210> 15257
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-B11

 <400> 15257

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catgagcgcc aacgccgcca ccttcacat caccaacaac tgcgggttca ccgtgtggcc 180
cgcgccacc ccggtgggcg ggggcacgca gctgaaccgc ggccggacgt ggaccgtcaa 240
cgtgccggcc ggcaccagct ccggccgcgt gtggggccgg accggctgct ccttcaacgg 300
caacagcggg agctgccaga cgggccaatg ccgctgctcg cttgcctgca cgctgtctgg 360
gcaaccggcg gttacgcttg ccagttcac catcgccggc agc 403

<210> 15258
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-021-Q1-K1-B2
<400> 15258

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acttgctgat gcccttcttg ctcttgatcg tcggcatggc cgttcccctg gccctcaaga 120
ggatcccgga ccgtggccga gccgtgagga gagtggctgt aaggacgctg aagctgctct 180
tctggggcat cctgttgcaa ggcggttact cccacgctcc ggacgaactg gcgtatggag 240
tcgacatgag gcacgtgagg tggggcggaa tcctccatag gatcgctctt gcgtacctgg 300
tggttgccgt tctagagatg gtgacgaaag acggcgccaa ggttcatcag gaccagccgc 360
caggttcttc aggcgccttc tcccgtgtat tcagaatgta tctctcccag tggatcgctg 420
cgtgctgcat tctggtggtc tacctgtccc 450

<210> 15259
<211> 94
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-021-Q1-K1-B3
<400> 15259

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gtcggggggc ggatgccgtt gctgatgatg aata 94

<210> 15260
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-B5

<400> 15260

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 tactgatatc ttggcagcat tccgagtaac tctcagctc ggggttccgc ctgaagaagc 180
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 cccagatcaa tatatctggt atgtagctta tccattagac ctatttgaag agggttctgt 360
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 acgtttggag gatctacgaa ttccc 445

<210> 15261
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-B8

<400> 15261

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 cccgtcggag cggaccttgt cgcggcgggc ctgcggcagc tgcgcttctc cgcggcggtg 180
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 aaagcatgct ggcttccctt tcttgacaag cacactaagg gtgtgggttg agatgggtcca 300
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<210> 15262
 <211> 347
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-021-Q1-K1-C1

<400> 15262

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ccacacatgg catnccagct ctccgccgac gtgccccggt tccacggcct ncgggggtac 180
gccgcgcca ggtccgcggt ggcagcgctg ccgttcgtga ggggtgggag gaagaggctcg 240
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acgacgacgc tgattgctgt tgcggggcgg ttcgggctgg cgccgtc 347

<210> 15263
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-A12

<400> 15263

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tcagcagggtg tccctgggtca tcaactatga tcttcccacc cagccagaga actacctgca 180
tcgtattggt cgtagtgggtc gttttggtag gaagggtgtt gccatcaact ttgtgacctg 240
cgacgactaa cgtatgctgt ttgacattca gaagttctac aacgtgttga ttgaggacct 300
gactgccaat gttgctgacc ttctgtgatc aa 332

<210> 15264
<211> 167
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-020-Q1-K1-F3

<400> 15264

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cgggggacac ccancngggg ggngaggaca gngacaacag gangggcaac cacagcggcc 120

aggagnncaa gaggaagaac aagaaggana acacnggcaa ccccagg

167

<210> 15265

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-F5

<400> 15265

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caccaggtcc aggggcagca gcagtagcgt ggccaagggg tcaccaccac cagccttcca 180
gttccagtgc agggcgctga ctttcgcggc ggacaccagc ctccggctcg agctggacga 240
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gaccttgaa gacgtcgagt gccac 445

<210> 15266

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-F6

<400> 15266

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catccggcgc cgccaccgca ccccgccaac ggccgagca gcctgtggcg cggcgggtggc 180
gccgcgctag ctctcatcc tgctcgcttc gggccaaga ggaggacgct ccggttggtt 240
aacgtcagcg tcagctgcag cgccgaggcg ctgcgtccg acggcgcttg cgcgagacca 300
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<210> 15267

<211> 423

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-F8

<400> 15267

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atg 423
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<210> 15268
 <211> 203
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-020-Q1-K1-G12

<400> 15268

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catgttggtt aattccacga ctcaactgata tttttcttac ttgattgtct tcctgctatt 180
tataattaat cttcaactta cat 203
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<210> 15269
 <211> 191
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-020-Q1-K1-G3

<400> 15269

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tgggatacctc ctggccgggg accccaagac agacacgata gcctactgca ccggccgtaa 120
 cgttatcatt cagcgtctag atgcgcctgt tgacgcttgt gcctaccccg accacgccta 180
 ccgcacgacc g 191

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 <211> 288
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-G4

<400> 15270

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 ctcacaggcg gccagcgcac ctacctgate ggactctgcc cgacgagctt gctggctatg 180
 cctcctcaag ctcggttcca tggccttctc cgccttcggg cagctggagc tcacctgcgc 240
 tctgcagctc gagcagatcc ctggtcgaca ggccgcgcac ttcagtga 288

<210> 15271
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-G7

<400> 15271

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 cgcttctccg gccagctct cccaggtgga ggtggagggtg gagcagcggc ggcggtggtg 180
 gcttctccac ctgtagtctc catggcgctc atctcggtcc ccagcccggc cccttccgcg 240
 accgaagacg ccgaaaacat caggaaagca gtgcaaggga tgggcacgga cgagaaggcg 300
 ctgatcgaga tactgggcca ccggacggcg gcgcagcgcg 340

<210> 15272
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-G8

<400> 15272

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cccagccatc caaggagaat ccgtccaccc ctgggttgggt caaggcctcg aagtttaaga 180
ggagaaaggt caaggccaac cgtgcgaagc aggcagtcgc tgcagcagct attgacgagg 240
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aaccatccga tgttgccgag gcattacctg tgggtgcaaac gccaaagtca accacttttg 360
ctgaggcatc acctgtggca cagacgcaga agccagccac tgatgctgaa agattggtgc 420
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<210> 15273

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-G9

<400> 15273

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tctcacgccc gacagcttca gcccctacat catctacatg gcgactgctc cctcggacgt 120
gctcgccgtt gagctcctgc aacgctattg ctgcatgcgc cattctctgc ctctattgcc 180
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<210> 15274

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-H10

<400> 15274

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cggcgctctg gaccgcccgc aacccccacc agctctgccg gtccccgcgt gcgctgggca 120
agccagtga ggggcttggc ctggggatgg ggcgggagcg cgcaagccag cggagcatca 180

cgtgccaggc ggcgagcagc atccccgccg accgcgtccc cgacatggag aagcggaagc 240
 tgatgaacc 249

<210> 15275
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-H12

<400> 15275

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 tggatctttg gacaaattct ctgttgacca ttatccttac ctgttggtgg gtccgccaac 120
 aaaattcaat ttggttcagt ggaaacaaaa gcaagagaat agtgaattgg aactaattga 180
 tgatggaaga acagcagatc gggttactgaa atggataaat aagaagatgg gaagctcatt 240
 caatttagac gacaaaaagt atgagaatga aagtatgcac ccaaaaaata cttcagatcc 300
 tgaacagatt gttcgagcaa tttatgacg 329

<210> 15276
 <211> 196
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-H4

<400> 15276

aaccccgggc cgaccacgc ggccgaaccg ggccaacact nncacgctca ggcgctcagc 60
 tctagcaang gctgcctcca ggatggcgat ctctacacg gcgatggccg gtacccccat 120
 caaggcgggc tccatcggcg agggcccat gagcatgcgc aagaccgaga gcaagcccaa 180
 cgtggcaccg gccaga 196

<210> 15277
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-H5

<400> 15277

cacaatattt catcgattcc ttccttgtct tctcacctct gacgattctg tttctgaaat 60
ctgggtcctg caaaatgggt ccatgggtcac ggaattcgcc atggtcagag tcagagagag 120
agagagagag tcgtactggg cgtcacctgt cgaagatttt cgggtgtctcc tgagccacag 180
ctgctgctgc tgctggaacc atggagatgg aggccgtgga gtcgcacgga ggcgccgggc 240
gccggacgcc caagagggat cgcgcatct cctgtgcctg cgtcttcac ctagcgagta 300
actgcttcca gttcatcggc tactttgccg tgtcgacgaa cccggtgaac tacctcaagg 360
acc 363

<210> 15278

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-H6

<400> 15278

ctcgtagaga gaaggaaaaa tatcccaaaa ccctagctcc cgatctcgat ggccaaccct 60
cgcgctcttct tcgacatgac cgtcggcggc gcccggcggc gccggatcgt gatggagctg 120
tacgccaacg aggtgcccac gaccgaggag aacttcgcgc cgctgtgcac gggcgagaag 180
ggcgtgggca agtcggggaa gccgctccac tacaagggtt ccaccttcca ccgcgtcatc 240
cccagattca tgtgccaggg cggcgacttc acccgcgga acggcaccgg cggcgagtcc 300
atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgt ccccggtgtg 360
ctctccatgg ccaacgccgg gcccac 387

<210> 15279

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-F12

<400> 15279

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gatggaaaga ggcacatctt cgtcaagacc ctactggaa agactatcac cctcgagggtg 120

gagtcttctg acaccattga caacgtcaag gccaaagatcc acgacaagga cggcatcctc 180
 ccggaccagc accggctcat ctgtgctggc aagcagctac aggacggacg cacacttgcc 240
 gactacaaca 250

<210> 15280
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-A11
 <400> 15280

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 ccggtctggc tcttcccgtg tgctcatcac cactgacctg cttgctcgtg gtattgatgt 120
 tcagcaggtg tccctgggtca tcaactatga tcttcccacc cagccagaga actacctgca 180
 tcgtattggt cgtagtggtc gttttggtag gaagggtgtt gccatcaact ttgtgacctg 240
 cgactactaa cgtatgctgt ttgacattca gaagttctac aacgtgttga ttgaggagct 300
 gcctgccaat gttgctgacc ttttgtgatc aatctgaaga aaaaacagaa caaaataggg 360
 tcgtgaggga acctggtaag gattggtttt gtcgaaatac cgtgggagag ggggtga 417

<210> 15281
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-020-Q1-K1-C8
 <400> 15281

ccctcgctc ctcacgtcac gcaccccatc ttttctctcc ccctctcgtc tcgtccagtc 60
 gtcgcgcctc tgccccactc taccagctg ccctgctctg cgtcgcctgc catggcgctc 120
 tccacgggga gcttgaggca cgggggggtc acgttcacgc cgccgccctt catcacctcc 180
 ttcaccgagc tgctctccgg cgcacgggac atgctaggag ccggcgccga tcaggagcgg 240
 tcgtcgccga gggggctggt ccaccgcggc gccaggggag tgcccaagtt caagtcggcg 300
 cagcctccca gcctgcccac ctcgcgcgcc gccatgtcgc cttcctgcta ct 352

<210> 15282

<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-020-Q1-K1-C9

<400> 15282

agaaggatga ttaccaacct tgtgatgtaa cattggaaat ttctacatca cactacgacc 60
gcagacctag caaagataag catacttcac caaaacaact gtctgaaaaa tctccatctt 120
caggtgacca taggttttca ggtaggctta gtgggtggcg tagtcttgat aataaaggag 180
aaagaaagag ccttacgaaa tacagagata gagatgggtga catagcccaa gagcgatcac 240
atcatcaaga tcgaatgccg gctaagggtc cattcagga gccaacaccg tcaaattcat 300
ccataagtag aggtgggtcat tttttgggca gttcaccaaa taatcctttg ccacctgcac 360
ggaacgggtga cccttncttc caggggtctac atgatga 397

<210> 15283
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D11

<400> 15283

aactagactt cctagacaga ctagacccta tttagaattc gtaatatcca cactaaactg 60
atccgctcag ggctgactct tactatcaac agaagtattg acaaaaatct gtatatccaa 120
ctgatgatct acacactcca actccatctc gtcatcaaga taaacctgca cataaaggta 180
ctgatatatt tactgatttt tacag 205

<210> 15284
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D2

<400> 15284

atatcgttgt acctgcatct cgacctcacc ggcgtccggc ggtgggtatca cgatgggtggc 60
gtggctgggc cggcggtatcg ggggtggctgc ggcagctgcc gcgttcatcg ccctcgtggc 120

gttcggatcc gcctcatcct cgcccaagtc cttegtgaag tccatcggct tcgtccacga 180
cgtcgtcatc 190

<210> 15285
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D3

<400> 15285

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agggaggaga gagatggctt gccctgcgca gtccatgctc tccgccagcg gctgcatctt 120
cctgaggagc aagcctcagg cggcatccca agtgcgaggg ggcatcatcg gcgggtggccg 180
cagcagcagg ccgttctctgc tcacctgcaa cgcttctctt tctcctgccc ctctctcgcc 240
agcgccggcg caggaagacc ccgactgcaa cgaggaggag tgcgccccgg ataaagaggt 300
cgggagcctg agcgc 315

<210> 15286
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D5

<400> 15286

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gtcgatgaga gctgaggctc atgtagccga tgagtccttt ttttttcttt ctcttctctg 120
tgttttctcca agattcaagt tggctggccg tgcttatecg tgcaggagct gaagcagggt 180
tctgccctgt tgggtggtgat ggtatctatc ggtaccgta ctttgcgtcg ctttatcccc 240
atctttgctg gtgaggtgct atgtcagtgt tgttacactc gtttatcttg ttctcatatt 300
cttcggtttc cttgttcgta ccggcg 326

<210> 15287
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D6

<400> 15287

cgactgcgca cggcgccgcg ccatgccgct ttagagggtc tgctccccgg ccagcaagaa 60
gagggattaa gctggttgca agtccggctt gcggatatct cgatctatct tctgtgatct 120
tcgacttgca cattacatgg agtgc 145

<210> 15288

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D8

<400> 15288

cgccctctct ctccttctct ccttctgcct gcggccggcc catgtccgtg gcgcccgtgc 60
gcgctcctcc ggccctgcga gctgcttctc cagcgaaaag gctgctgcgc cttgacgcac 120
caccgatcca ccgccgccca acccgagcgt tctgtccggc agctaggtag cgagctgcgc 180
ggcggctgtg accggaagca gggaggggaa cagggcagcg aacgcccggc gattgccttg 240
c 241

<210> 15289

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-E1

<400> 15289

ctcgcgaagt atcggcggcg gcgagcgcg ctggctagag cctcgttgct gaggagggga 60
gagggcggct atgggcgata tgccgatgag gccggcgcgt ccgggcccgc cgatgcagca 120
ccgtggtccg ccccgatgg cgcgctccg acccgaacca atcgaccgcg agaagacctg 180
tcctctgctg ctcatggttt tcacaagggt tgctggtcac caccaaatg aagagtttgc 240
agtgcgaggg aaggaaccaa aggatgaagt tcagatttac acatggaagg atgcgacct 300
gcgcgagctc actgaacttg tgaaagaagt tgctcttcca gcaggaaaaa ggaatgcaag 360
gc 362

<210> 15290
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-E10

<400> 15290

aattaacaag ttcatgaaca ccctgctggca gtaccagacc cctttgcagc ggtatatagc 60
 tatgatgaac cttcaggaaa cggacgagag gcttttctac aagcttttaa ttgataatgt 120
 ggtggagctg cttccttttg ttacacacc aactgtaggt gaggcctgcc agaagtatgg 180
 gtccatcttt ggacgaccac agggctctgta tgtcagcctg aaggacaagg ggaaggctct 240
 agaagtctta aggaactggc cacataggaa cattcaagtt atctgtgtta ctgatggatga 300
 acgaatcttg ggacttggag actttgggtg tcagggaatg ggaaattctg t 351

<210> 15291
 <211> 395
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-E11

<400> 15291

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 cacggtccag agctgcccc ttgccagaag agcaaagatc aacaccaggt ccaggggagc 120
 cagcagtagc gtggcgaagg ggtcaccacc accagccttc cagttccagt gcagggcgtc 180
 gactttcgcg gcggacacca gcctccggct cgagctggac gagaaccccg aggcgatcat 240
 ctcgggggcg tggcccgga actgctccct cctcagctac gacgacctnc gcgcctacct 300
 ngagtcgcac gagacggcgg ccagggcaga cgatcagcgc ggcgtggcgc tcttgagcga 360
 gaccatgttc acaccgtgc tgggtggccac agcag 395

<210> 15292
 <211> 188
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-E3

<400> 15292

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 agggacaccc tctcctagat atgcagatat gcccgcacat ggcgtttctg agtagcagcc 120
 aacatatcta ccatgtatag cagctttctcc tagcaaatca tactagcacg ccaggagact 180
 ccatgccca 188

<210> 15293
 <211> 230
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-E4

<400> 15293

caagcaactg caaagcagca agctctactc ttcttctgta ctgaacgtgt gactaggtaa 60
 caagaagcgt gaaccatggc ggacgagtag gcccgacagc gctacggcag gtccggcgcc 120
 ggcgacgact acgacagcgg ctacaacagc aagtccggca ctgatgacta cggccgtggc 180
 gaatgtggct acaacaagtc gggcgggcgat gacgactact gccgcagcgg 230

<210> 15294
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-E5

<400> 15294

aagagaacca gtgtgctagt gctacagcta ctgcctagct acctaaccta ctacggcgca 60
 gctggcagcg ggggcatga ccgacgggag cgaggagagc accagcagca ggtggccaga 120
 gctggccgcc ctgcgcgcgc tggcgcgcca cgcgggcgcc cgggcccggga gggagacggc 180
 ggggtggcgc gggcgggagc gggaggatca ccgtcacggt cacggcaaga cggccaaagt 240
 catgcacctg ctgctctggg gacccaaatg aggtgaagtg aagcgctgct gctgcagcac 300
 agcacctgcc tatggctcgt ggcccgcgcg c 331

<210> 15295
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-E6

 <400> 15295

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 ctcgggctcc cgggcttcgc ttttccgacc agccgaggcc gacgcccttg ctccaccgaa 120
 ccaggcatcc tgccgagcca cgcgacgccg agcacctcgc tctcgcgccc tgtgcgcaag 180
 ccgcgcgcac tgccctgcac ctgctgtctgc acgagctgcg tcgcccattc gcaccgagcg 240
 cgctgagtcg atgcgcgcag ccgcgccttg ctcatagctg cac 283

<210> 15296
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-E7

 <400> 15296

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 gcgagcncct ggacggcgat ggccgggtacc cccatcaagg tgggctcctt cggcgagggc 120
 cgcataacca tgcgcaagac cgtggggaag cccaaggtgg cggcgtccgg cagcccctgg 180
 tacggccccg accggtcaa gtacctcagc cccttctccg gcgagcccc gagctacctc 240
 accggcgagt tccccggcga ctacggctgg gacaccgacg ggctgtcctg cgaccccgag 300
 accttcgcca agaaccgcga gctggaagtg atccactccc ggtggggcat gctcggcgcg 360
 c 361

<210> 15297
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-020-Q1-K1-E8

 <400> 15297

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 ggaacgccat cgagggcatg aacggcaagg agctggacgg ccgcaacatc accgtcaacg 120
 aggcccagtc ccgcggcggc cgtggaggcg gcggcggcgg ctacgggtggg ggccgtggag 180
 gcggcgggcta cggcgggtggc gggcgccgtg atggcggcgg cggctacggc ggtggcggcg 240
 gcggctacgg tggcggcggg ggctacgggt gtgggtgggtg cggctacggc ggtggcaacc 300
 gtggcggcgg ctacggcaac tccgacggga actggaggaa ctgagcgggtg gggcccgcgc 360
 ggccaagtta tcctgttcgc taccgggatg 390

<210> 15298
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-E9
 <400> 15298

gcaccagcaa tggaggcgag cggcagtcgt gtccggatgg ggagcccggg cccaagcgc 60
 cggggangcg ggggcgtggc tactggcttc gggctctacgg cgcagtcgct gaacgacgac 120
 attctccggg ccgtcttctc ccggctggac gaccacttcg acctcgcccg ctgctccgcc 180
 gtctgcgggt catggaatag gataattgaa acagctcatc tcatgaggga tatgtattac 240
 aaaaggaacc cacctgcatg aggttcaagc tctaataatt cagtaaaaag ttactttgag 300
 atgcttgcca tggatgagca tgcattctgt ttctctagag gacctgctgc agcttttcag 360
 tggactgggc acccaatgag ggcta 385

<210> 15299
 <211> 154
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-F1
 <400> 15299

aagacgactn gnnncancca gccttgaaga tatcgagctt cttttgcacc acaagggcga 60
 ggatgtcttg caactgcgga tcaagctgca gctgcggctc aagctgcaag tgcggcaaga 120

agtaccctga cctggaggag acgagcaccg tcgc

154

<210> 15300
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-F10

<400> 15300

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caatgctcgt ggtggctatg gtcgtggtgc tgactatgga ctgcgatgtg gggctgaagg 180
cagttttgct gctggaggta gcgacagctt tgggagcagt aactttgctg acagtgctat 240
tggtgaaaac cct 253

<210> 15301
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-H4

<400> 15301

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aagccccga aggtgaggac ttgtatcttt tgactactgc agaactctga attggagcag 120
cccaagaata tctaaaatct gcatttggtg cacgtctggc caagcttcct tctgaaggtc 180
tacacgtttt 190

<210> 15302
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-H6

<400> 15302

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ggggaggggg aggaccaagc gaaaggggag ctagaggaag atgggcggcg cactgctgct 120

tgcgctcctc ctcgctctctg ctgctgccgc ccctcaggta cttggagttg gcaatggaga 180
 caatcacatg agaatcatcc aggaggacat catcgagaca gtcaacaacc atcccagtgc 240
 tgggtggaca gcctcacgta atccttactt ttcaaactat accattgcgc aatttaagca 300
 cataacttga gtgaaacc 318

<210> 15303
 <211> 324
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-H9

<400> 15303

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 gctaacgccg taggcgagaa caagaaaagg ctcgacatgg ccgaggagaa gaagcagggc 120
 ctgcagctgc tggacttctg ggtgagccca ttccgggcagc gctgccgcat cgcgctggac 180
 gagaagggcc tggcctacga gtacctggag caggacctgg ggaaaaagag cgagctgctc 240
 ctncgcgccca acccggtgca caagaagatc cccgtgctgc tgcacgacgg ccgtcccgtc 300
 tgcgagtcgc tcgtcatcgt gcag 324

<210> 15304
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-A11

<400> 15304

cagatgtgca gacgattctt atttggacag ttatatcatc acaattgggg ttgatttcaa 60
 aatgcgcacg gtggatcaag atgggaagac cataaaactt caaatttggg atactgctgg 120
 gcaagagcgc ttcattgacat ttattagctt ctactaccgt tgagctcatg gaatcattat 180
 tgtatatgac gtgacagacc aagaaagctt caataatgtg aagcaatggt tgaacgagat 240
 agaccgttat gcaagtgata atgttaacaa gtccttgtt gggaacaaga gtgaccttac 300
 tgccaacaaa gttgtggcaa ctgagacagc aaaggcgttt gctgatgaga tgggca 356

<210> 15305
 <211> 177
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-A3

 <400> 15305

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 cagcnnncaga cggcaccaac ggggcaactc acggaggcna ngaagaaggc anngaagaga 120
 gcagcaagaa cagccangaa aacggcggac aggnncnacac ggacggcgcg aacanga 177

<210> 15306
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-A6

 <400> 15306

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 caggcccncc gggcggccta ccaggccaac acgangcccg acacggccgn gcccacgcac 120
 gggcaagaaa cncaccngc ctcggngcaa cnaagccag ggaaagcgga gcaangngca 180
 aggcaagaga aacnccacaa gagncaggag acaggaacag aagnaaagga accagangaa 240
 accgggngag cngaaancac ggggcaacag acgctagcaa taaacatggg aactcatcca 300
 tattagccgg atggaaagct atcaattcct gaattcatgt tgaatgagcc ccaacactat 360
 ctggcagaga aag 373

<210> 15307
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-A7

 <400> 15307

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acagaaacta aagcaagtgt tggatttaaa gctggtgtta aggattataa attgacttac 120
 tacaccccg agtacgaaac caaggatact gatattcttg cagcattccg agtaactcct 180
 aagctcgggg ttccgcctga tgaaccagga cctgcagtac ctgcggaatc ttctactggg 240
 ccatggacaa ctgtttggac tgatgg 266

<210> 15308
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-A9

<400> 15308

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 gtgggtgagt gatcgagcta gctgagctcc gatcctcgct agctagctag gataccgcct 120
 taccacatgt cttcttcaca agtttaggag tgacagcaac aagagatctc gatggcctct 180
 gccaccgtgc tcaagtcctc cttccttccc aagaagtccg aatggggcgc caccaggcag 240
 gccgccgcgc ccaggccgcc caccgtctcc atggctcgtcc gcgcctncgc ctacgccgat 300
 gagctcgtga agaccgcgaa aacgatcgcg tcgccgngc ggngcatcct ggcgatggac 360
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<210> 15309
 <211> 380
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-B1

<400> 15309

aacccccggc cgacccacgc gtgcgagctg cgctactcgc ccgncgcctt gggctttatt 60
 aagatcgga tcaacggctc ggggacggag ccgcaggctc gtggccaggg tcgcctcca 120
 gagcgaggat gtgcgagctg tcgccgtcaa cgacccttc atcaccacgg actacatgac 180
 ctacatgttc aagtccgaca ccgtccacgg cccttgaag cacagcgct caccactaaa 240
 ggcctccaag acccttgtct tcggagacaa gccgtgcacc ggctttggca atcaggaacc 300

ctgaggaaat cccatggagt gaggctggcg ctgcctatgc cggggagccc accggcgctct 360
ccactgacaa ggacaaggct 380

<210> 15310
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-020-Q1-K1-B12

<400> 15310

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tccggctcgc gcangacata tattcagtga tggaacacaa ggaggccggc tgccagcagc 120
cggaggggccc aatcctatgc atcaataact gtggtttctt tggaagcgct gccaccatga 180
acatgtgctc caagtgccac aaggagatga taatgaagca ggagcaggcc cagttggctg 240
cctnctccat cgatagcatt gtcaatggcg gtgataatgg gaaaggacct gcaattg 297

<210> 15311
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-B5

<400> 15311

cacacagcaa tccacacaag cacttcgacg ttacacgggc gctgcacaca gacacaccaa 60
gcgtgggcac caatggctta ctaccaggag gtggactact gtcggagga ggtgaggctg 120
gtggcccccg ccggcttcgg ccgccacggc ggcgcgctcc agcagcacgt cgtcaaggag 180
aagttcgagg aggtcgacac ggtcgcacgc gccggcgcca accaccacca ccaccatggt 240
caccacggcg gccacggctt cgtggtgctc gagaccagtg tcgaggagga catcaacacc 300
tgcaccggcg aggtccacga gcgcaggag agcttctctg ccagggctaa ctgaacagcc 360
cgggcggccg gcattcacgc ccgttcgtgc ctgcctgcgt gccttat 407

<210> 15312
<211> 342
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-B9

<400> 15312

ataccgccat accacaagtc ttcttcacaa gtttaggagt gacagcaaca agagatctcg 60

atgggctctg gcaccgtgct caagtcctac ttccttacca agaagtccga atggggcgcc 120

accaggcagg ccgccgcgct tagaccgtcc accgtctcca tggtcgtccg cgcctacgac 180

tacgccgatg agctctttta gaccgcgaaa acgatcgctt cttcttggcg gagcattctg 240

gcgatggacg agttttacgc gacgtgcggg aagcggctgg cgtacatcgg gctggagaac 300

acggaagcca accggcaagc gtaccgcacg ctgctggtca cg 342

<210> 15313

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-020-Q1-K1-C10

<400> 15313

aattccccggg tggcgctgca acgatgagct tggcgcttct gccgaagagc tccacagttc 60

gtctggttcc aaagttacca agtattacat agaattgtgg aagcaaattc ctgcaaacga 120

gccctaccgg gtgatactag gccatgtaag ggacaagctg tacaacacac gcgagcgtgc 180

tcgccatctg ctggcatctg gagtttctga aatttcagcg gaatcgatcat ttaccagtat 240

cgaagagttc cttgagccac ttgagctgtg ctacaaatca ctgtgtgact gcggcgacaa 300

ggccatcgcg gacgggagcc tncgtggacct nctgcgccag gtgttcacgt tcgggctctc 360

cctggtgaag ctggacatcc ggcaggagtc ggagcggaac accgacgtga tcgacgc 417

<210> 15314

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-C11

<400> 15314

agcttgtgct tgctctgggg ggaaggagag ttagagatcg agagagagag agagatctag 60

tacgtaatcg agtacgtggt cctcgaacga agatgttagc ggcgttcagc ggtcaagtgg 120
tggaagtacc tacggagct 139

<210> 15315
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-H12

<400> 15315

gtcaaaaagg tcaatgttcc aattcatgct ttgatggctt tgatgcgaag agtgctgtta 60
gttgatggat cattgcataa caagctgttc ctttctacaa cttcattgca tcaagagctt 120
at ttgttttg atcttccatc gttacattca actttcttgg at ttgctgaa tgcaactatt 180
aaaggcatgc gaagccaact cttacctcat ggtgctagta tcatacggct tataacagag 240
tacttcaaaa tagcaaagct gcctactttg aagacaaaaa cttatagcat tttgcagctg 300
ttgctgacct ccatgggtgt tgggacgtc 329

<210> 15316
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-C2

<400> 15316

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tggggcgggc ctttcgccga agagcagcca acaggtatgc gcaccccttc ttttcctttc 120
ccgctgtgag aagctgagga cccaaaccct agctgacact gttttggcta tttgcgttcg 180
gatcggatct aatttcaggt gtataatgta gtattatgct tgctaacttg attgtcttgc 240
aaaataaaaa catgggtccg ctcatctccc ctactgggtt cgcattggcat atgtaggaat 300
tttagctatc ttttagccga ttgaatcaac 330

<210> 15317
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-C4

<400> 15317

gagccatcga cacgatcgcg agcgcaagca cgtacgttgt cggaagctca agttaggaga 60
agcgccattg cctgatcgat ggcgcccaaa gctctcctct gcggccggca gctgctgggc 120
cgccccgtgc agtcggccgt ctctaggtcg tcggcgagga aggcgccctt cgtcgtcagg 180
gccagctcca gccctgcagc caagcaaggt gccgacaggc agctgtgggt cgcgttcaaa 240
cagttcctct cctaccttga t 261

<210> 15318

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F5

<400> 15318

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agagggaaaa gatattgaga tcaatggagg gtatgccggg agccccaagc atgaaaatgt 120
actccaggga cgatctgatg aaaaataact ctggtactga agacgacgac gaggaggatg 180
atgaacatga ggatgacaac ttcccaaaga acttggggaa agctttgaaa aacagggcct 240
ctcaaacgaa ggatttgaac cagcaagtgt tcc 273

<210> 15319

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F7

<400> 15319

gcccagcaaa ccaactccac ccggtggctc gtctcggac gccaagccac tccgcgcccc 60
aatggggaag cgccgccgcc gccgatcgac cggccgtcga cccatgctgc gctcggcgct 120
cttcgctca gccccgggc tccgacggtc tccggcgacg gccacttat ccaccgacga 180
cggcgccgtc gcagcgtggc tcttcaacgg ccctgcctac gccccgtcta ggggtgcgct 240
cctcatcggc ggggagttcg tcgagtcgcg cgccgacgag cacgtcgacg tcaccaaccc 300

cgcgacgcag gaggtggtgt cccggatccc gatcaccacg gccgatgagt tcaaagctgc 360
 cgtccatgcc gccaggacgg ccttccccgg ctggcggaac acgcccg 407

<210> 15320
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F8

<400> 15320

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 agcggcatgg cgctctcctc cacggccttc gccggcaagg ccgtgaacgt gccgtcgtcg 120
 tccgccttcg gcgaggcccc cgtagcatg cgcaagacgg cggcgaaggc caagccagcg 180
 gcggcgctccg ggagcccgtg gtacggcccc gaccgcgtgc tgtacctggg cccactgtcc 240
 ggcgagccac cgagctacct ga 262

<210> 15321
 <211> 224
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G1

<400> 15321

aactacccac tcgaccacg cactccttac agccaaacaa ttcaccccg taatacatc 60
 tactacgaca atctactacc tgcgccaagt agcgatacta ttacacacga ctttaaccat 120
 acctagcctc aaatacaaac tatcacatga tctataaatt cacatactca tgcacatgc 180
 atccacatat atcttatata ccgaagtcta taacacttaa ttac 224

<210> 15322
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-G10

<400> 15322

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acggcgagga gctgggtgctg gtggcgcccta acgtcctgtc cgtggagcac gcgctggagc 120
gcatggagct cgtgcactcc tgcgtcgaga aggtgcgcat gaacctgcgc acggggcgccg 180
tgtcacgaac cccgctctcg gcgggtaacc tcgacttcgg cgtgatccac ccgggctacc 240
ttggccggcg caaccgggtac ggatacctcg gcacggcgga ccccatgccg aagatctccg 300
gagtggccaa gctggacttg gaccgcgcgc gcacggcgga ctgcactggg gcgcggcgcg 360
acttcggggc cgggtgcttc gcgggggagc cggctcttcgt ncccgacgac gtggaggggg 420
a 421

<210> 15323
<211> 369
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-019-Q1-K1-G11
<400> 15323

cccacgcgtc cggaagtgtc ggccacatcc cacatgtgaa ctgcccactg ccgcagtgcg 60
gcaggcgcgg accccaacct atgcagtacg cagtangcat caagcgtcct gtgtggctgc 120
atccaagtcc aagcgccgtc cggccaccag cacaggtacc gagccaccaa ggtaggagcc 180
ggccacggtg cagatcccag gctgccagcc accggcgctc agcactccgg ctgccagcta 240
ccggccaccc gcagcgcagg ccacactgac gggcagcagc cgcacgacgc tatggctgcc 300
gacgaacacc gacgggcaaa acccaaaatc caaccaagg gtgggttcaa gctactggaa 360
ggcaatgca 369

<210> 15324
<211> 452
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-019-Q1-K1-G12
<400> 15324

atTTTTcccg gctccgctc cggccagatc ggctcgggtg aaccccagcc cctaccgatc 60
cggatccgtc cccatcgctt cgtgtgtttt ccgtcgagta ttttagcgtg tgtgtccccc 120

cctcttctgct tctggttggtg cgtgcggctg tctcgggtag atctgtgggt tggttcgcct 180
tgaaggcgcg cggcggcggt gtcgcggctt gtagcttgcg atttcacggt ggagcttgct 240
ggctgttggg gtcggatttg gagtttgta tggcgtctaa gcgcattctc aaggagctga 300
aggacctgca gaaagacccc cccacatcat gcagtgaag tctgtctggt gaggacatgt 360
ttcattggca agcaacaatt atgggaccac ctgacagtcc ctatgctggt ggtgttttct 420
tagtgaacat tcatttgccg ccagattacc cc 452

<210> 15325
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G2

<400> 15325
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cttggccacg accattatcc tccagtagta agtcaccatg tcttcgtcca tgcaatcttc 120
ataccttctt gctaccactg agtccgtagc caaggctcag gaggccaagg acgcttctga 180
gtccatctca atcctctacc gcgtgcttga ggatccctct tcactctcgg atgccctgag 240
agtaaaagag cttgccatca cgaatctaac aaactaccta acaaaagaca ccagagctga 300
agacctaaag aaccttttga cccagttaag gccctttttt gcattgatcc ccagggcgaa 360
aactgcaaaa attgtgcgtg gcacattga tgccgttgcc aaggtgcctg gaaca 415

<210> 15326
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G4

<400> 15326
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cctgaccctg gccgccttga ggaaaagcaa ggccaacgcc ttctcctgct cctcctctcc 120
accgaggtcg cgccgcgcgc ttgccgtcac gatggccgcg tcgctgctcg tgctcgccgt 180
ggcgttctct gttggcgctg gccacggcgg catcgatggg ggtgcagcag ctcacgtgga 240

ggtagagggc tctgaggtga cctacgggag tgcgattaag ctgttgcacg agaagacaaa 300
 gcaccgtctg aactcacatg atgtgccgta cggctcaggc agcggtcagc agtctgtcac 360
 cggctttcct gaaggcgatg actcaaatag ctactggatc ataaagccta ctccagatcc 420
 atcg 424

<210> 15327
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G5

<400> 15327

cttcaaccga aggagttacc aagtatttca atcctgcttt tcttagcttc acaatgcgca 60
 aaaagcgcac ttaccctttc ggatcccaca atagtccatc tttctgtcat cattgcacct 120
 gctccagagt atcagccacc tcctactgcc tctgctccac caatgagtgg aaccagactt 180
 ccagttcatg attgacacaa caactttgtt cacaaacccc atgactttgt gaccactatc 240
 cttcccaagg tttctctcct agccaaatac ctttttttca aggccaaacc ttttattaaa 300
 aac 303

<210> 15328
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-G6

<400> 15328

cagatggata tatccgactg gcaagatgat attcatgaaa acaaacatga acaagaaggt 60
 attgaggctc gtgacagaag caatgacttc tgagacacat cggaattccc tatcatttgc 120
 tgaaaaggaa attaaggctg aactcctcgt gaatttgcca gataccctac ttctgaactg 180
 gcttttccat tgcttatcgg actgctatac tgtaatacca gcccttgtga agtactagat 240
 tattggtact atntcataag aactgaaagc ttctgcttgc caccatgaaa agggacaata 300
 tgtccatgct tgaaaagaat gatctatcag agaaatcagt cttggctctt tgattcatct 360

gtgatggatg actcttcggt atggtggtat tggcagtcaa gctctggcaa gccaaagcaa 420
 gcccatcac actact 436

<210> 15329
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G8

<400> 15329

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 cgggcttcac tgtccctctc cgtctcctct cctctcccat ggctcagcgc gacaagaagg 120
 tggaggagcc gacggagctg cgcgcgccgg agctcacgct gtgcgccaac agctgaggct 180
 tcccgggcaa cccggccacc aacaacctct gccaggcctg ctttctgggc cgcacggggt 240
 tcttcttcgg ctcccgcttg gggcgggcgg ctttcttctt cttggcttcc gcggggcttc 300
 aattcgacga ccagcagcaa aatcccaagc cctgtgcccc ggccgcgttc gggccccaccg 360
 aggaac 366

<210> 15330
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F4

<400> 15330

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 ggccgcggta gcagctgtgc gctgcaccc cggcctcccc catcgccggc cctgacactg 120
 ggtaaactgt gtggctgaag ctgctgctga ggattcgga tcttcttgct gccgccacga 180
 gctgcctgcg tgatattgac acggcgcgct cccctggctc ctgggcatga cgaggggagg 240
 cgggtggaaa ggaggcaagg aggagccggg gaaggtgatg ggtccgctgt tcccgcggct 300
 ccacgtcacc gacgcaggca aggcggcgcc cccgcggcct cggccaagga ccaggatggc 360
 cctctacaac cagttaaccg tgccgtccaa ccgtttaagt tccc 404

<210> 15331

<211> 367
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-D11

<400> 15331

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 cctggtctgg cacctccgtc tgcgtctccg tccgtatata agaagccaga ttctgaattc 120
 cctectnctn cgnctctccc gcagtccttc tctctctttc cctccccctg cgcgatcgct 180
 ctgtgctccg nctacgtccg tcaaggcctg ctcttgccgc gttccttctc gcccaatccg 240
 ncaggggatg gccacattcg agctctaccg gaggtccacc attggcacct gcctcaccga 300
 gacgctggac gaagctcgtc tcagcggggg ccgtcagccc cggaactcgc cttccagtcc 360
 atgactg 367

<210> 15332
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-D12

<400> 15332

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 atgtgaatgc tgctgtccat tcaatcaaga ccaagatagc agtgcagttt gttgattggt 120
 gccctactgg tttcaagtgt gggataaact acctaccacc aactgtagtc cctgaagggg 180
 acctgggtcaa ggtgcatcga gcagtctgca tgatcagcaa catcacagtc gtggctgacg 240
 tcttctatcg tattgaccgc aagtctgacg tcatgtatgc caaacgtgca ttcgttcatt 300
 gacatgtcag tgaatggatg tgaagaaggg gagttctcag aggcacgcga ggatcatgca 360
 tcaactggaga acgattatga ggaagtcgga cctgaagttg aagatgagga cgagtgaact 420
 gattattgag tcatcgatct ggatgcat 448

<210> 15333
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-D4

<400> 15333

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ggccgctagc gtggaccttt agattgggct tgggccatgc cgctgctggct caccgcccgc 120
accgttccgg gcggcgatgc cgcggcgccg gcgtgagagg aggaacggct gcaaggctcg 180
cggctgcgcg tccgtcccgc aggagcaagc cgagctgccg ccgcttgccg tcgatggcac 240
cgatgaaga 249

<210> 15334

<211> 147

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-019-Q1-K1-E1

<400> 15334

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gttatctgat gactcagatg acgagggggc gatgggggta atgagaaagg ttgaggagaa 120
aaaattgaaa ggagttgata ctccggt 147

<210> 15335

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E11

<400> 15335

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atcgttttgg ttagatTTTT gcaaagggtt catttacgcc taatccatat cgagtagacc 120
ctgtcgttgt gagaattctt aattcatgag ttgtaggagg ggacttatgt caccacaaac 180
agaaactaaa gcaagtgttg gatttaaagc tgggtgtaag gattataaat tgacttacta 240
caccgccgag tacgaaacca aggatactga tatcttgcca gcattccgag taactcctca 300
gctcgggggtt ccgcctgaag aagcaggagc tgcagtagct gcggaatctt ctactggtac 360

atggacaact gtttggactg atggacttac cagtcttgat cgttacaaag gacgatgcta 420
tcacatcgag cccgttcctg 440

<210> 15336
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E12

<400> 15336

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ccagcgcacg atggaatcgc tgacgcttcg cgcttcgacg gccgcctcgc cgctgcagcg 120
acgccggctg ctccccggac ggcagcgcgc gacgtacgtc cgcgccacgg cctccgccgg 180
cgagccggac ctctccgtgc gcgatgaacg gctgcagatg cccaaccgt tcgtgatcgg 240
gtcggggcca ccgggcacca actacaccgt catgaagcgc gccttcgacg agggctgggg 300
cgccgtcatc gccaaactg tgcattgga tgctgaaaaa gttatcaacg ttactcctcg 360
ttatgcaaag cttcgggcag aaccaaattg ggctgccatg gggcgcatca ttggctggca 420
gaacattgaa ctcatcaggg acagg 445

<210> 15337
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E2

<400> 15337

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agcgtggacc ggtggattgg gcttgggcca tgccgctcgc gctcaccgcc ggcaccgtcc 120
cgggcggcga tgccgcggcg cgggcgtcgc aggaggaacg gcggcaaggt cgtcggctgc 180
gctccgtcc cgccggagca ggccgagctg ccgccgcttg ccgtcgatgg caccgaggaa 240
gaaggcgtag gcggttgagg accgtgcgga ggcccggggg ggttgctctg caacttttgc 300
cagggcagga agaccaccgc caagccggaa acgcggaccc ggttgtagcg cggtgtccca 360
acttccaagg ttgcggcctt aatccggggc caaaaagcca ggt 403

<210> 15338
 <211> 256
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-E3

<400> 15338

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 ggcgccgact ttaagttggc catcgagaat gacgtcaaga acttccaggt cctcaaagag 120
 atgtacaacg agtggccatt cttcaaggtc accctggacc tgctcgagat ggttctcgcc 180
 aaaggagacc ccgacattgc cggcttgtat gacgagctgc ttgttgcgga agaactcaag 240
 cnctttggga agcagc 256

<210> 15339
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E6

<400> 15339

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 ccgggggttcg gggtcgtggg tgggcccgatc gagatggcgg cgtcggatgt tgagtaccgc 120
 tgcttcgctg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180
 acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 240
 ggcttcagct tcgtcacctt tctccacgga ggaagcgatg cggaacgcca tcgaaggcat 300
 gaacggcaag gaacttgacg gccgcaaca 329

<210> 15340
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E9

<400> 15340

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aaggttctgc agagggcgct gaagctgctg gaggacgcgc cggggcagtg gagcacgcgc 120
gctgggatcg aggcgcagat gggcgtgctg tactacatgg tggggaggta cgcgagtcg 180
aggagctcgt tcgagagcgc ggtcgcgaag ctgagggcca gcggcgagag gaaagtcggc 240
gttttcggcg 250

<210> 15341
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F1

<400> 15341

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agtcctatcc cctctaaca tggccatcga gcaccacctc tggatctccc tggctctgat 120
agacatgctc aaccatgtgg ccactcttca gggtcaccct actacctact gcatatacct 180
cgtgctgaag tagaccccg gctactcgga caccatgacg agctgcttgt agcccaagaa 240
ctgaaaccct ttgggaaact tctgaatccc cagactctgg acacacagca actactgctc 300
tacatcgctg aactc 315

<210> 15342
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F10

<400> 15342

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gaggagtgcg cgtgcagcgt ggccgaggcc gctgacacag ttcgagcggg tgcaactacgc 120
gggtgctgctc gacgtctctca atcgcatcgg cgacgtcaag gcgctcagcc gctgcgccct 180
cgtatcgcgc cgcttgcaag cgctcgtgcc gctcgtcgac tccgtcttcg tccgcgtcta 240
ctgcgtcata cctgacgacc cgccgtctct gtctctctgc tctacttct cctattgcgc 300
cgcacatgc acctccgacg aggagggcgc agcctcaacc gcgcgcgggc gcagcgcgct 360
agcgcacatc gcgcgcgtgc tgctcagcgg catcggcagg cccatgcacg cgctc 415

<210> 15343
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F11

<400> 15343

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 caagaaggag tgggcgtaca gcgtggccga agccgatgac cagttcgagc ggttgcacta 120
 cgcggtgctg ctgcagctcc tcaatcgcat cgg 153

<210> 15344
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-F12

<400> 15344

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 ccaggccgcc tgctcgtcct cgccgtcgtc gccctcgcgg ccaccgccgt cgcgccaac 120
 tccggttcg cggactcgaa cccgatccgc cccgtcaccg accgcgcggc ctncgcgctc 180
 gagtccacgg tcttcgccgc gctcggccgc accgcgcagc cgctccgctt cgcacgcttc 240
 gctgtgaggt acggcaagag ctacgagagc gcggcggagg tccacaagcg gttcaggatc 300
 ttctccgaga gtctccagct cgtccgctcc accaatcgga aaggcctctc ctaccgcctc 360
 ggcataaacc gtttcgcgga catgagctgg gaggagtcc gtgcg 405

<210> 15345
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-D10

<400> 15345

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caaggggttgg atttaaagct ggtgtaagg attataaatt gacttactac accccggagt 120
acgaaaccaa ggatactgat atcttggcag cattccgagt aactcctcag ctcggggttc 180
cgcctgaaga agcaggagct gcagtagctg cggaatcttc tactggtaca tggacaactg 240
tttggactga tggacttacc agtcttgatc gttacaaagg acgatgctat cacatcgagc 300
ccgttctctgg ggaccagat caatatatct gctatgtagc ttatccatta gacctatntg 360
aaaggggggtt ctgttactaa catgt 385

<210> 15346
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B5

<400> 15346

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ccaagtcgcy cacgtcatg gacgagatag cgatgcagc cacggaggag taccactcct 120
tcgacttcaa ggagccgcgc ttcgtcgaga tacttcacat cggctacacc gcagaccgag 180
taccgtaaga tgaacatcg 199

<210> 15347
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B6

<400> 15347

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ttgagcaaag tgcagaagtt gatcgctgca tctccacatg tacttattga gggggatcct 120
tgccttggca aatccttggc ggtgagcaag aaaaggctgg ctggagatgt ggaaacacag 180
cttgaatcag ctaaaaaacga tgatggcgtg cgaccaacgc agctagagca ctcgaaagag 240
aaaactgaac caaaccaacc ttaaccattt aaagacaaac aggccgaacc taatggtgac 300
tttcttgcct caatccttac cctttccacc accaaccaga aaacttgtgc ctttcttg 358

<210> 15348
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-C10

 <400> 15348

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 ctcggttag aagaagcacc agtgctgat cgatggcggg cccaggctct cctttccggc 120
 cgcaactgct gggcccgccc cgtgcagtcc ggcgtctcta ggtcgtccgg cgacgaatgc 180
 ccccttcgt cgtca 195

<210> 15349
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-C11

 <400> 15349

 ccggaccgac gagcgacgaa gcgcgcagaa agagaagaac ctcgagctg agatggcaca 60
 agcgatggcg tcgatgaccg gcctctcgca ggcgtctctg cccagcaggc gcgccgacag 120
 cagaaccagg acggccgtcg tcctcgtcag ggcgttcgag gaggcgacg ccgttgcgca 180
 tgccggccgt cgcccgctga tcgggctggg gccactggc atcg 224

<210> 15350
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-C12

 <400> 15350

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 cggcgagcac attcctgggc accgctctgg cggaccgggt gccagagaac gggcgcatcg 120
 tggcccggtt cgggttcggc ggctgaaagc ccaatgctgc cgtgccgaag aaggtggcga 180
 agacgtcgat ctctctgac cggccgctgt ggttaccgg ctccgtggcg cccgactacc 240
 tcgacggctc gctggtcggc gactacgggt tcgaccggtt cgggctcggg aagcccgtgg 300

agtacctgca gttcgaactg gactcgc

327

<210> 15351

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-C2

<400> 15351

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tccagcgaat ttagaacacg gcgctttatt actacgaccg cataacacca aactcgttat 120

tgacaaaact ttcccacacc gcccaaccata gcaccccatc aaccaggccc tcatatacaa 180

cgacctcaac ttcattaaaa ctaccaccct actcgcaactt gcaactaaca atggctcttac 240

cgtcatagat aatacacgaa cgctcgccct gggtaaccag gacaaccctt gttaaaaagc 300

cgatgccctt aagaactttt ttgccaggac cga 333

<210> 15352

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-C4

<400> 15352

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cgagctttga gcgcagattt ggtgcccgcg atctgccatg gatttgattt aagatttagg 120

gagatcggtc gtgttcgcgt cgcgctgcga gattcgattt tttatgtctg ttttattcac 180

gagattgcaa gaacgggact gctaagcaag ctaagatctc attttttttc tggatcaatc 240

tcaaattagg atttaggagg aggaaataaa gcaagaatag aaagtttttt ttttggggtg 300

aaccctgatg cttgaaagga aagtctaact tggttcgggc tttttgctga acttctggga 360

gaccgaaacc caatgggcgt accttgccca ccaagttctt ggggg 405

<210> 15353

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-C5

<400> 15353

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ggacatgctg ggcacatgc tcgcttggtt gcaagccgaa tacaccgtct ccggcccat 120
cgacaacctt ttcagccaca ctatcgaccc tggccaaccc accattttcc aggccttcac 180
ccccaatca tgagctctga tgaacttggc agttcgaaga gtgctaccac acatgcatgc 240
attgttaagt ttgatagccg atatggaact ttttctttat gttagcggca gactactggg 300
tagactgtca acgatgatga tgaatatgat gaaatgttcg ttgtgcatg catggtgtac 360
ttgtactatg ttgcaactaa tgtaaaa 387

<210> 15354

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-C6

<400> 15354

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tttagggcga cgcgcgcgcg tcttacgtcc agcggccagg ttttctctg gccctctgcg 120
ctgactacaa cccaccacct cggggttagg ttttggattt ggagacatgg cggaagtgg 180
ggacaagctc aaggactacg atatcaagaa ggaggagaa gcagagat 228

<210> 15355

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B11

<400> 15355

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tggcgtcgga gcctgttgcg cggtcggttg ctgaggatgt gggccgctgg ggcagcatga 120
agcagacggg ggtgacctg cggatcatga tggagtctcg ctcccggccc atccaagcgc 180
aaccttggtc tcttcgcgca attgctgcac aaggggctcc ccattcggtt tgggcccgcct 240

gccgctgaac ctgaatcggg tgcctttggc cttttcaaca aggccggcat tcttaaagtt 300
ccggactggg acatggactt atttcgggac attaaattcc ttcctgaaat gaggagcctg 360
aacgaccaac tcgctttcac gcagatgata aacatgggtca aagtgcggca tatcaatgtg 420

<210> 15356

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-C9

<400> 15356

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accgccctcg cgctgccgtc cgggacgacg cagaggccgt ctgccaggg ccgcctcctc 120
ttcaccgccc cgcccggccc ctccctccgc ctccgccccg ccggccggcg gtcggcccg 180
tcctcgctc gggccaccaa agctgtgggt gcagcgttg ctgacctct caagggcatg 240
atatcaagag cttcggcggt cgcgaaggc acacagtgc agctcatcaa gacccaatat 300
caactggcgc acatcttcgc cggagatttg ttgcggggcg agatcgctgc tggctctgag 360
aatgggaagc gggccaagga attcatggag aaaggccagc tcgtgcctga tgagattgtc 420
gctaatatg 429

<210> 15357

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-D1

<400> 15357

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cgcgcatctc cctacctega tacgattctt cgtcttctct tccccgcgat cgcgccagcg 120
ccccgaaaa accctaacta cctggagcct cgacggcacc tgccgcaggc gacggcgagc 180
gaccccgagg ggtggtagac ggcgcagcgg gttgccccct gtggaggcgg acggcacggc 240
gcaggctcct gccttcccg ctatgcgaat tgcggatga agctcaagcg gcgacgcgcg 300
gtagaagtgc ctccaagtat aaaatctttc atcaacagt ttaccactgt tcctcttgag 360

gatgtagaat tgccgctgaa ggatttttgc tgggaatttg acaaggggga ttttcatcac 420
 tggttggacc ttttcaatca ttttgattc 449

<210> 15358
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-H5

<400> 15358

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 gttgttgaga aactgcccc aatgcatgtag gacttcattt gcaacctcat ttgaaagtgt 120
 atcaacaacc ggtccagttt gctccatcaa ctttacaagt aattcagcat caccagtcga 180
 aagaagttca gcataagcag agtccatata ctcaagatga acagcatcca tcgcacgagt 240
 ccaggcctcc caaagtgggc ctctttcatt cccttggttg tcatcattca aagcttctcc 300
 atccagttca ggaatagcaa ctcttgacgc ggcccttgaa tttccattat cttcaccagc 360
 tactctaata gtttccagtg ttgcttcatt ttttgaggcc cgccatgcac ttcgggcaga 420
 aggaccctca ccgaacctaa aggg 444

<210> 15359
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-H7

<400> 15359

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 cgatggcacc accaggttgt acgtggccta tctttgcccc ttcgcgcagc gcgcttgat 180
 tgctagaaac tacaagggtc tgcaggacaa gattaagata gttgccatcg atctcgctga 240
 caggccagcg tgggtacaagg agaaggttta tccagaaaac aaggtgcctt ctctagagca 300
 cgacaaccag gtgaaaggag agagcttgga tttgggtaag tacattgaca gcaacttcga 360
 aggtccatcg ttgctccccg aggatcatgc aaaggcacag ttcattgagg agctgctcgg 420

ataccctgac gcattca

437

<210> 15360

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-H8

<400> 15360

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accctagcct cgacctgacc gccagcgggc ccgcaggccg gagaaggagt cggaatcgcc 180

cccacccacc caccctctgc cgcgggcggg gagcgggcgg cggaacgagat gccgtcgcac 240

ggggatctgg accggcagat cgcgcagctg cgcgactgca agtacctgcc cgaggcggag 300

gtcaaggtgc tctgcgagca ggccaaggcc atcctcatgg aagaatggaa cgtgcagccc 360

gtgccgctgc ccg 373

<210> 15361

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A1

<400> 15361

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ttgtggacta cgatgagcct tcaacagaga gaatatactc atcttatctt gagctgaacc 120

ttgatgaggt ggagcctagc atgtctggcc caaagaggcc tcatgatcgt gtccttttga 180

aggaaatgaa atcagattgg catgcttgcc tggacaacaa agttgggttc aagggttttg 240

cagtgcacaa ggagcagcac gataagggtg tcaaatttga 280

<210> 15362

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A10

<400> 15362

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tctggtccgg tcacaggagc tccgactccg agccctctcc aatggcggtt aaggtctacg 120
tcgtgtacta ttccatgtat ggacatgttg gcaaactagc tgaagagatc cagaaagggtg 180
cctcgtctgt tgaagggtgt gaagctaaaa catggcaggt ccttgaaacc ctccctgagg 240
aagtgcttgg aaagatgggc gcaccccta agcctgacgt gccagtcac acgccgcaag 300
aactcgc 307

<210> 15363

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A11

<400> 15363

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tttgatctgg gaaactgcga atggattatt aaatcagtta taggtcgggt gatggctcgt 120
gctactcgta taaccgtagt aatcatagag ctaatacgtg caacaagacc ccgacttgcg 180
ggaagggcgc atttattaga taaaaagctt acccgggctc ttcccggcga tccgatgatt 240
catgattact tgaccgatcg cacggcctta atgccggcga cgcattattc aaatttctgg 300
cctatcaact ttccatggga agatatgggc ctaccatggt ggtgaccggt gacagaga 358

<210> 15364

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A3

<400> 15364

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tacctctgtg caccagctag gtcatggggg tctgtctcta ccatggacag gcccaactcc 120
gcgcgctcgc cggatccctt gctaggcacc gactgccgga cctcgtgctc tcgtgatctc 180

actactatgt gccgcacgt cgtcagtgcc tctgggtgct tgcattggcg gctgctccct 240
tcaggctact cgcggtagcc atctgctctg ctcgaccact agactcttac atggtcattg 299

<210> 15365
<211> 154
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-019-Q1-K1-A5

<400> 15365

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ccgctatctg tatgtcagtg cactgagctg ggactgctgg gactgctcta ccatggccga 120
tgcccaacat cgtgcgctcg ccgcatcccc tgct 154

<210> 15366
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A6

<400> 15366

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cagcggcgca ggatggtggc gccgggtggtg attgcgtcgg cggggctggg catgctggcc 120
ggcgtggcga tggccaaccg gtccctcggg aacgggctcc cggcggcctc cagggtggaac 180
gcgcgcccgc gctgcgccac gtgcggcggc tctggccgcg tggagtgcatt ctgcaaccgc 240
tggtccgacg gcgactccgg ctgccggacc tgcgctgggt cggggaggat gccctgccgc 300
agctgcggcg gctccggcac gggccgaccg ttccttgccg ggttcaccgt ccagcaccag 360
aagccgcccgc cgcgcgcgcc aggtacacat tgatcgatgg tggatgatta 410

<210> 15367
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A7

<400> 15367

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 cctcctcatt cacggcttcc cggagctctg gctctcgtgg cgccaccaga tggccgcgct 180
 cgccgtccgc ggcttccgcg cgtgggcccc cgacctccgt ggctacggcg actcgtccgt 240
 gccaccgac cccgccgact actccatcct ccacatcgtc ggcgacttgg tcgcgtcct 300
 tgaccacctc caactcacia aggtgttctg ggttgggcac gactggggcg cgatggtggc 360
 gtggcacctc tgctgtt 378

<210> 15368
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-019-Q1-K1-B10
 <400> 15368

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 gatgtccgct tgctgctgcg cttccaacac catggacggc gggggatccg gcaatgcctc 120
 cggcggcagc ggcgggcgcat cgacgtgctg ctactacgcg ctctcggca tccgcaagaa 180
 cgcctccgtc accgacatac gcgcgcgtta ccggaggctc gcgatgaagt ggcacccgga 240
 ccggtggggc agcgaccccc gcgcggcccg cgaggccaat cagcggttcc agcggatcca 300
 ggaagcatac tccgttctgt cggacaaggg gaagaaagcc atgtacgacg ccgggctctt 360
 cgacccccctc gacgacgacg accaggattt ctccgacttc atgcatgaga tgctgggtgat 420
 gatggatagc gtgaaaaacg agaag 445

<210> 15369
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-G10
 <400> 15369

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tgctgcgact cttattgaac tgattactcg acattttcct ggtttccggg accattcact 120
 ctacaagggg caccacgttt tcctgtacaa gagagcccag atctttgttg ctgatttggtg 180
 gggcgccctc aagggacaaa actatggcga gttccacgat atcaattcca tcaccatatt 240
 tgctgactac attgttccag cggtcctgag ggagcttgga gtacttaaata atggctcgaa 300
 tctatcttgc tccatcgact cgaacagtga gatagtgcct ggaagcgacg aggaagtgga 360
 gatacgcgcg tgctccatct atgcagtgga gaagatgacg gacctgatca gc 412

<210> 15370
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G11

<400> 15370
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 tcatgaccag cgaggcgctg cgaatggact gtccatgact gggatgtcct ttttcaaggc 120
 acttgtcca gcaggagcag gcattgtgtt ctcattggcg cagaaacgcc agcatgcgtt 180
 tttcttccca ggtgaccaga tgggtattctt cctcctgaac gccgtcgagc tggtcgggct 240
 tctcctcacg ttcaagccct tcctggcagt accagagcag tacgattcga gatagttaga 300
 cgatctatct atctatacaa gttctggaac gttcaagacg attcatcgtg tgccgctgta 360
 ccattgaag 369

<210> 15371
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G2

<400> 15371
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 gccggcggtga actccagcgt cgtcgggctc aagcccgcg cggcagtgcc gcaggccgac 120
 gccggctcat cgtcggcgaa gcgagtgcag ctggccgcgc ccgagggccg tcgcgccgct 180
 ctgctcggcc tggcggccgt cttcgccgct acggccacca ccgggtcggc caaggccacg 240

atcttcgatg agtacctcga gaagagcaag gccacaagg agctgaacga caagaagagg 300
 ctggccacca gtggagccaa ctttgccgcg gcctacaccg tggagttcgg cagctgccag 360
 ttcccctaca acttcaactgg gtgccaggac ctcgccaagc agaagatagt ccccttcac 420
 agcgacgacc tcgagattg 439

<210> 15372
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G3

<400> 15372

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 gggcggcgtg aactccagcg tcgtcgggct caagcccgcg ggggcagtgc cgcaggccgc 120
 cgccgcctca tcgtcggcga agcgggtgca gctggccgcg cccgagggcc gtcgcgccgc 180
 tctgctcggc ctggcggccg tcttcgccgt caggtcacc accgggtcgg ccaaggccac 240
 gatcttcgat gagtacctcg agaagagcaa ggccaacaag gagctgaacg acaagaagag 300
 gctggccacc agtggagcca actttgcgcg gcctacacc gtggagttcg gcagctgcca 360
 gttcccctac aacttcaactg ggtgccagga ctcgccaag cagaagatag tccccttcac 420
 cagcgacgac ctcgagattg agtg 444

<210> 15373
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-G4

<400> 15373

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 cgctcgggtt ttgttcagtt catcaagtgc cattccattg tctggtactc tggtgccaca 120
 gcaaccatcc ttccacctcg ccgtgggtcag agcatctcga gaagtttgtt acccagaacg 180
 gagttgcgcc accgcagacc ggagccgtga acagcctctg tgttgaccga acaactcacg 240
 ctttctccgg tcgattcctt gtgagcacca aagtttagaa ctctaccag aaggagtga 300

gattcaagct gaagtgggtga ctgaagagga gtctactcca gtggctgctg atcaagtgga 360
 ggagccatct aactgggggtt taatagaggg atcgagtacc tcttcactgc aacanagggtg 420
 atgaggagta ttct 434

<210> 15374
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-G6
 <400> 15374

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 aaagcggcct attttaactg gtgatctaca agtcacacta aaagaagggtg tgggaacaat 120
 tggggagctt acattcacag ataactctag ctggataagg agtaggaaat tcagacttgg 180
 cttgaagatt gcctcaggat tttgtgaggg tgttcgcatt cgtgaggcaa aaacagaagc 240
 ctttatgggtt aaggaccata gaggagaatt gtacaagaag cactatccac ctacactgaa 300
 agatgaggtc tggaggttgg aaaaaatagg gaaggacggg tcattccata agaggctgaa 360
 caaatctgga atatctacag ttgaggattt ccttaggctt gtggttcggg atccacagan 420
 attacgcagt atacttgga gtg 443

<210> 15375
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-G9
 <400> 15375

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 ctcgtccct cctgtccccg gctcagcaat cctatccacg gcttccccgcc tccgtccgcc 120
 tctgctctc tcatcacgag caacctccca ccggcccca gcggcaccga cgcgccgcca 180
 cttctcatcc tgccttttct gcagccgcgc ggggtcgtgc caagaagatt cccatcgcg 240
 acaccgatga gcccgccgcc ggagtcgcgc tcaccgatca cggcatctct taccgcctcg 300

atggcgcgcc atttgagttt cagtatagct aactgagggc cccacgcgca cgccccgtag 360
 cgctccgtga ggccccgttc atgccgttcg ggccccgaggc caccgccacgc ncgtggacgg 420
 gaggaagcc 429

<210> 15376
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-H1

<400> 15376

gggtgagagg acccggaccc ggcacaacaa cctgcttggg aagttcgagc tctccggcat 60
 cccaccggct cctcgtgggtg tccccagat caccgtctgc ttcgacatcg acgccaacgg 120
 catcctgaac gtgtctgccg aggacaagac gacggggcag aagaacaaga tcacaatcac 180
 caacgacaag ggccgtctgt ccaaggagga gatcgagaag atgggtgcagg acgcgagaaa 240
 gtacaagtcg gaggacgagg agcacaagaa gaaggtggag tccaagaact cgctggagaa 300
 ctacgcctac aacatgcgca acacgatcaa ggacgagaag atcgcgtcga agctggctgc 360
 cgacgacaag aagaagatcg aggacgccat cgacgcggcc atcagctggc tggacgccaa 420
 ccagctcgcc gaggcggacg agttcgat 448

<210> 15377
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-H10

<400> 15377

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 aactaaagca agtggttgat ggaaagctgg tgtcaaggat tataaattga cttactacac 120
 cccggagtac gaaaccaagg atactgatat cttggcagca ttccgagtaa ctctcagct 180
 cggggttccg cctgaagaag caggatctgc agtagctgcg gaatcttcta ctggtacatg 240
 gacaactgtt tggactgatg gacttaccag tcttgatcgt tacataggac gatgctatca 300
 catcgagccc gttcctgggg acccagatca atatatctga tatgtagctt atccattata 360

cctatttgaa gagggttctg ttact

385

<210> 15378

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-H12

<400> 15378

ggattccggg tcgcccagcg tccgaaaaaa aacaaactac aaaagaaaaa attaaaaaat 60
aaagaaaaga gaatacaaaa atggaaacgg gccagacct ccaactggggt gaaacccttg 120
catactgagc aggctgcagc agggcatgtc aaaacgggct ccgatttaga ccgcattgtc 180
cgttgcattg ccacactctt tgcacgacat ctactggatc tggatacatc ttattctacc 240
tccaccagaa ggatcactcc aaattcaaaa gaaaggggta agaccatctc tatgacccca 300
ccttgaatat gaccgaatca ctatgtgggt tcgaactggt ccttacacat tgggacaaca 360
ggcaactcct catcaaatca caccgtgggt aagttgctaa acctgaccaa tccaaggcga 420
ttaatgatga agggatg 437

<210> 15379

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G1

<400> 15379

gttgactaag acagatgagc ttgtttttgt tctagcagca acaaatttac catgggaatt 60
ggatgcagca atgctgcgtc ggctggagaa gcgtattctt gttccattgc cagagccgga 120
tgctagacat gctatgtttg aagagctcct gccatataca cctggcaciaa tggagattcc 180
ctatgatgtt cttgtggaga aaactgaagg gtattctggc tctgatattc gcctgggtatg 240
caaggaagca gcaatgcagc ccctaagacg ggtaatggca gttcttgaag gcaggaaaga 300
agaggtcctt gagggtgagt tgcctgaagt tggccagta actacagaag atattgaact 360
tgctttgagg aatacaagac cgtctgcaca tcttcatgca catagatacg aaaagttcaa 420
ccaagattat ggcagtcatg tacatgg 447

<210> 15380
<211> 83
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-018-Q1-K1-E12

<400> 15380

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aaggagcaag cggataagag gga 83

<210> 15381
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E2

<400> 15381

aaagatcata cacggtttac agggatatggt ggggtgaaag gggcgagttt ggcgagacg 60

ctgctatagt aaccgtccct ctcggggtac tcaaggcaaa catcatcaag tttgagcctg 120

agctaccgaa agagaagctc tcggcaatcg ccgaccttgg cgtcggtatc gagaacaaga 180

tagctctcaa gttcgacact gtgttttggc ccgacgttga agtgataggt aggggtggccc 240

cgacgtcaaa cgctgtggc tacttttctca accttaaaa agccacagga aaccgggtcc 300

tgggtgtgcat ggtggccgga aggttcgctg acgagatcga gaagctgtcg gacgaagagt 360

ccgtgaactt cgatcatgtcc caactcagga acatgtgtcc gcaggcaact gaccgggttc 420

agtatctggt ctcg 434

<210> 15382
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E3

<400> 15382

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aaccctgcaa ctgcaacaag ccctgacgct taatacatcg gccgggactt gatcggcagc 120
 agatcaaaga ttgccgccga cgaaggggag aaggcgaaaa accgccgccg ccggcaacaa 180
 aataacggtg ttgcggggct tgacgttgcg cgggacatgg ggcggtggta cgagatcgcg 240
 tcgttccccg gccttttcca gacgtcggac ggccgcgaca cgcgcgccat ctaccggctg 300
 ctggaggacg gcgccacggt gcacgtgctc aacgagacgt ggagcaaggg caagcgcgac 360
 tacatcgagg gcacggtcta caaggccgac cccggcagcg acgaggccaa gctcaaggtc 420
 aagttctacc tgccgacctt cctccgcata gtccccgtcg tcg 463

<210> 15383

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-E4

<400> 15383

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 tccatagcag gctagcagct gaccgaggtc aactcttccg ccggcggaaa gagagggagg 120
 gagcggggaa gagacgggag ggtctccgcg cacctgccat cagccaccac ccgataccca 180
 ggtcttgtcc cgcgcagatc tgctgctgcc cttgagatct aaatcaaagc ttccgctccg 240
 gttgttgtcg gttggtcggt acctggggcg cggcggcggc ggcacgggag gacagcgaac 300
 atgtcgtcga gcacgatccg gaaggccctg ngcgcggtga aggaccagac cagcatcagc 360
 ctgcgcaagg tcaactagcaa catcgcgccc gatctggacg tgctcatcgt caaggccacc 420
 agccacgacg acgagccggc cga 443

<210> 15384

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E5

<400> 15384

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 catggcctca tcagagccta tagagtcca ggttgtggcg ctgaggggtg cgattcactg 120

ccaaggatgc aagaagaagg tgaagaaggt gctccagaac atcagcggcg tgtaccgatg 180
 cgaaatcgat gcccgagca acaaggctgt ggcgacggtc tcgacggagc tcgacccta 240
 catgctggtc gccaaagtgc gcaagtccgg caagcaggcg gagctgtggc cggagcagcc 300
 ggtgcagcag caggagcagc cggcaccagt accaccagct gagagccaaa agcaggagga 360
 gcccaagaac caaccagcct gcgagcc 387

<210> 15385

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E8

<400> 15385

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 gctgcatcca acctactttc agaattgttg ctctcgtgta cgtctacgca accaggcgac 120
 tcaagtcccg acgaatatga aggacatggc gtgcacctcc tgaaatctga agcgtcaatg 180
 gagtatctat gcaacttacc accacatagg tatgaagctg ttttcgcgaa agaaattccg 240
 gagacgatca ctggcgatgc gtttttagag aagtatggag accacaacga tgcggtaaca 300
 gaagttgacc caaagcggtc ttactgtgtc aaggctccta ctagacatcc catatacgag 360
 aacttccgag tcgaggcctt caaagcgttg ctaacagctg ccaaaacaga cgagcagctc 420
 tcagcccttg gagagctgat gtt 443

<210> 15386

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-F2

<400> 15386

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 gaggcgcggc tgtcggcgcc gtgctacgcc acgtacgaca acggcgaact ggctacttc 120
 gacaacgtgg tgcgcggcaa cctcagcaag ggcgcgctcc gaggcgtgga gggcctctcc 180

caggaggagc ttttcgtctg gctccccgtc aagggcatcc tcgtccagga ccaggaaccc 240
 ggggtcatcc tgttcgacat cgggttagcc cacaagagcc tgtcgaggtc gctcttcgag 300
 gacccgccgg actgcaagcc gtcggcctcc ggcgggatga gcgccgncn cgccgccagg 360
 agggagggca cgcaaggtgt tactggacta cggttganc gagagatggc agcagcaggc 420
 agcgaccaga gtcaggagc 439

<210> 15387
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-F3

<400> 15387

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 ggaccccgaa aagggaaagg ctaattgatg gtccgtcaac ggaactttcc ttccttatct 120
 tttacgaccc ggttaactta gcccggcctc tctatagccc cccttacggg cgccgaacga 180
 taagcacctt tccggccggg tccgtcgccg gatgagctcc gcggcctatt gcctccgacg 240
 gccaggcctc gcgagcaaca ggagacgttg gtggatcacg agagggggtcg ctttaaactg 300
 ggaccggttc ctgtagagg cgctcgacaa cccttgccaa cggctcatgg ttctacggat 360
 ggaactggat atacgaaact ttatgcagaa ccctcagctg caggagtctg aattccagaa 420
 ctttcgact tcttacctac gctgtgctgc tcatcgtgtt gc 462

<210> 15388
 <211> 468
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-F4

<400> 15388

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 ccggtgttcc caaccctaca gccgtggcct accatcgttg cccccggaag gctcaacctt 120
 ccttcccggt ggcggcctcc ctctcccaa ccgtccgtac cccacttct tccccagccg 180
 acctctggcc gccgccaccc ccgagccggc gagctcgggc tccctccggc cgcctccatc 240

ccttccccga cgggcgcctt cctgctnccc ttgccggcga gcgcgggctc aagcgcgccc 300
cgactagccg gctgctactg ctcgacgccg gatgggggag acgacgcgac gctcgctcgt 360
ggactggcgc ccatgggacg aagctgcgga ctccctcgat cggccaccgt cgtgccctct 420
ctgggcgcgc ccactactgc ggtgcccgtc cagctgccag ggacgccc 468

<210> 15389
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-F5

<400> 15389

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ctcttgaaat gtgcagaaga ggtcctactg aatggcgatg ttgcaagtac atctgggaaa 120
tccattgcaa gcttacaggt ggaagcatct gatttggcaa acttccttac catggatcgg 180
aatggggggtt accgaggttc aaaaactctt ctaagatctg tattatcaga gaaacaagag 240
ctgtgcttct ctgttgtctc attgctctgg cagaagctca tagcttcttc tgaaatgcag 300
atgtctgcag aaagtacatc agctcaccaa ggatggaaga aggttggtga tgcacttagc 360
gatgtcgttt cagcctctcc aaccatggca tcagctgcta tc 402

<210> 15390
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-F7

<400> 15390

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tctatcgctg gtcggggacg atgaggccgg ccgcgctctt cctcgccgcg gtgctggcca 120
gcgtcgctct cctcctcgcc gccggccgcg ccgcgggcga cttctcggcc ctggcgccgt 180
gcgatgtgac gcagctgacc ccctgcgca gcgcgttcgc ggggaaggcg tcgcccacgg 240
ccgcctgctg cgccaagctc ctgtcccacg ggcccggctg cctgtgccgg tacaaggacg 300
acgccagcct gaagcgctc gtcgacgcca ggcacaagcg cagggtgttc accgcgtgca 360

agggtgcccgt cccgagttgc tagccgtact cctagtcctc caagctcatc cgtcggccgt 420
 cggcgcaagc agccacg 437

<210> 15391
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-F8

<400> 15391

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 accttgcttt tcagtcattg gagtatatatt tggttcttgt gttttactgc atatctgatt 120
 tttgttccca atgcatcata catatctagg ttgcagctgt tttgtgtgga tataaaatga 180
 gacctgaatg gtttgaataa ataaaacaaa gttaggagtc cccgctgatt gctttgcaat 240
 ttataatgaa ggaaatttat ctatgcttaa tgcattcaag ttccaacagg atttggattt 300
 tttttatatt actttgctgt gtttctatatt catgaaggca gatctggtgc agcggtgaaa 360
 gttgtctcgc tgagtcacca tgccctctctg catttgcaaa ggaaagggtt gtctctgggt 420
 attccttccc a 431

<210> 15392
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-F9

<400> 15392

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 ggcaggggga ggagatggcg gcggcgccag cggcgggagg gcagggaggc ggggggatgg 120
 acgccgcgct cctcgacgac atcatccgcc gcctgctcga ggtgcggacc gcgcgccccg 180
 ggaagcaggt gcagctctcc gagtcggaga tccgccagct ctgcaccgtc tcccgcgaga 240
 tcttcctcaa ccaacccaac cttctcgagc tcgaggcgcc catcaagatc tgcggtgaca 300
 tccatggtca atacagtgat cttctaaggc tttttgaata tggaggcttt cctcctgaag 360

ccaattatct attcttaggt gattatgttg atcgaggcan acaaagtttg gagactatat 420
gccttct 427

<210> 15393
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E11

<400> 15393

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ttcgccgctc cgatcccgcc ggcgcccggg gcacacagge gccgcgtcgc cagcacgcgt 120
cagagctgga cttgcgactt tcggctagcc gggtcggctc ggagcgctgc ggcggagcgt 180
ctttcgactc tgggccagtc gtgcaagcac gggaaacgcg gagggcccga gagcgaactg 240
aggggacaac gttcgcgatc ggcgggacttc tcgggctgac gcggaggact gcgatgactg 300
tcgtcggaac gaaggagcgc tagaacgctc cactctc 337

<210> 15394
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-C2

<400> 15394

tcatatatat atatagaatc aatgttagag tagcttccta ccataagcgg catgtggacg 60
acaagccgcc gtacgccgcc ttggacgaca ccatgaccac catcactaat aatatggtga 120
aggagcaact ctcatactac accttcagct tcatctatct tccatagcat aactaccgtg 180
tatggaatgc catgccctac gtcatatata actataactg ctagaagctg ttcaccatcg 240
ttacca 246

<210> 15395
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-C4

<400> 15395

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tatttccggg gcaacggcca atttggttc cggttgccgt tcttttcgc cgccgccgg 120
atcccccttac tcccaaagcc cttcaactat ccaactccgc gtccccggag aagcggcgag 180
atgtacggca tcttgacctc gccctgccct cgagccccgc ttctgcgcgc tctcccgagc 240
ccattcgccc gcgcattccc cagaacacta gccttccccg cgaggcccct ancacgcggt 300
ctccgcctga ccccttcgca cgccgacgcg gaggcacgg cggcagccac ggcgttaggc 360
gggcttctgg cgtagccgct ctgactctg gaggcgcgcc tgcggggcct caagctcgcg 420
ccccttcgcg ccctcgtggc ggccggcgatg t 451

<210> 15396

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-C5

<400> 15396

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tgctgtttgc caggatataca ggcataggag aatgttttgt tagtgaaagc aatagattta 120
tcttcctgtg ttaataagaa gctgtccagt gtcattgtat cctcttaggt tgtaatacac 180
caaaatatac ccttctcttt tgcttaaaat ctgagcggag ggagtcctgt tcttgctatt 240
ttctagtatt agtaggctgt tttttttttg tgtagctaac ttcttttcta atattttctg 300
cagtgatgat ccatttgtat cattatcagc acaagcacc acacaattcc gttttcctgg 360
gtctgttcac gttgtgcttg agcttcagca tcggcgtggc ttgtgctaac acccaaggga 420
aaatcgttct gg 432

<210> 15397

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-C6

<400> 15397

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 tcttctgtg ttaataagaa gctgtccagt gtcattgtat cctcttaggt tgtaatacac 180
 caaaatatac ccttctcttt tgcttaaaat ctgagcggag ggagtcccg tcttgctatt 240
 ttctagtatt agtaggctgt tttttttttg tgcgctaac ttcttttcta atattttctg 300
 cagtgatgat ccattgtat cattatcagc acaagcacc acacaattcc gttttcctgg 360
 gtctgttcac gtt 373

<210> 15398
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 15398

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 gctccathtt atctgttcga cgagatcgat gctgctctgg atccacaata ccgaacagca 180
 gttggaaata tgatccgccg tctagctgac atggctgaca ctcagttcat tgcgaccaca 240
 ttccggccag agattgctaa agtggctgat aagatatatg ccgtgagaca caagaatagg 300
 gtgagcaaca tcgacgtggt gtccaaggag gaggccctgg acttcacgca gcgtgatcag 360
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 aacgcag 427

<210> 15399
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-C9

<400> 15399

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 cctacatcga cggcgactac ggcgatgcgg cggatgaagcg ggaggtcgat cgcctcgtcg 240
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 ttcccaccgc cggattcgag aatcatccta tgcttgctaa agaatatgaa cgtgttaggg 360
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<210> 15400

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D1

<400> 15400

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 cccgccgcgg ctccgaagcc gaagcctgcc gccgccaagc cgaaggcggc caccgctggt 180
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 accggctcca gctcgcaagc gatcgccaag tatgtggggg acaagcacgg cgcgtctctg 300
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<210> 15401

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D2

<400> 15401

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 cccgccgcgg ctccgaagcc gaagcctgcc gccgccaagc cgaaggcggc caccgctggt 180

gcctcccacc cgccttactt cgagatgata aaggaggcta tcacggcgct aaaggagagg 240
accggctcca gtcgcaagc tatcgccacg tatgtggggg acaagcacgg cacgtgtctg 300
acggccaact tcaagaagat gctgtccatc cagctccggg ggtccgcagc caaggtcaag 360
cacgtgaagg tcaaggcttc gtacaagctc tcggacg 397

<210> 15402
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D4

<400> 15402

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tacctggacg gtcgctggtt cggcgactac gggttcgacc cgttcgggtt cgggaagccc 180
gtggagtacc tgcagttcga gttggactcg ctggaccaga acctggccaa gaatgaggcc 240
ggcggcatca tcggcaccgc gttcgagtc tccgaagtca agtccacccc gttgcagccc 300
tacagcgagg tggtcggcct ccagcgggtc cgc 333

<210> 15403
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D5

<400> 15403

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catgtaccag agccagtga tgaccagcga gaagaccac tactccggga ccatgaacgg 180
caccatcttc gtcgtcgccg gggcgggcgg ctgccacctg tccagctaca ccacggccat 240
ccccaagtgg agcatctacc gcgactacga cttcggcttc gtcaagctca cggcgttcaa 300
ccactcgctg ctgctgttcg agtacaagaa gagcagcgac agcaaggctt acgactcctt 360
caccatcgac agggactacc gcgacgtgct cagatgcgtg cagcacagct gcttccccac 420

cacgctagcc acctagttaa ttaa

444

<210> 15404

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D8

<400> 15404

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aatcgtcggc ccggacccca aggcctgaa gatgcgcgc cacgcctttc attttcacca 180
ttcggggtcg accacgctct cggcgtcggc tctgctcctg ccgcggggcg ctttagcgga 240
gccgccgcta cttctcgacc atatctgctc ggcccacggg cacgcggcag gagacgtcgc 300
gtcacggct gttccctcg tcgagccgtt cctggtcgcg gagcagcgca ataactccgg 360
cgaggagctt cagccgaggt tggttccgga gacgcgtctt gatgcgtttg gtgagtatga 420
gtcggggaat gctcaagatg 440

<210> 15405

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E1

<400> 15405

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ctagtgtgg gacatcgaaa gtgacccct ttccacccat tgtgagtggc caagttggca 180
cggagggcac tctcgactt caacgcagcc gtgctgtgtc caggacctt gttagagatt 240
ggaactttga cgaagtaatt gtcgcaaatt agggtaacct tcaacagttg tcagctgggc 300
tttgtgtct atttatcagg gaggagattc cttcatttga tatatattc tttcatagt 360
agacgtctgg aagtcatta ctatatactt aatgacttag acgaggaaat gctcgagagg 420
gataatatct ttcaagagcg atatctg 447

<210> 15406
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-C12

<400> 15406

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 cgggtcccgcg cttecgctggg caagccggtg aaggggcttg gcctgagcat gggccgcgag 180
 cgcgcccagc ggagcattgt gtgccaggcg gcgagcagca tctccgccga ccgcgtcccc 240
 gacatggaga agcggaagct gatgaacctc ctctcctcgc gcgccatctc gttgccacc 300
 gtccggcatgg tcgtccccta cgggcgcttc ttcgctccctg ccggtcccg gaacgccggc 360
 ggcggggacct acgcgaagga caagctgggc aacgacatca cggt 404

<210> 15407
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-A7

<400> 15407

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 gagctacgcg aggatggacg ccgaggccga cgcttctagt gatactgcct gaccagtgcg 180
 catctgccac tacgagatgc cagatgcaaa gctcaaacac acggggtcca ctgctgtcga 240
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<210> 15408
 <211> 364
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-A8

<400> 15408

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gagctcgagc tcctagtccc ccggggccga ggcgccggcg ccatggacca gctccggccc 180

gagccggccg cgggcgcgca cgagatcgag aagacggcgg cgccggacgt ggagtcggag 240

cccgcggcgg cgggtgccga gccggagcgc gtgccgncgt ggcgcgagca ggtcaccgcg 300

cgcggggatgg tggcggcgct gctcatcggc ttcgtctaca cggtgatcgt catgaagctg 360

agcc 364

<210> 15409

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-A9

<400> 15409

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tggagggggcg atggcggcgg ctgatgtgga gtaccgttgc ttcgtcggcg gacttgccctg 120

ggccaccagc aacgagtcgc tggagaatgc cttcgcctcc tacggcgaga tcctcgactc 180

caaggtcatc accgaccggg agacggggag gtcccgcggc ttcggcttcg ttaccttctc 240

ctccgagaac tccatgctcg acgtatcga gaacatgaac ggcaaggagc tcgacggccg 300

taacatcacc gttaaccagg ccagtcctcg tggcggcggc ggcggcggcg gcggcgggtg 360

ctacggcggc ggtcgcggcg gcggcggcta tggcggcggg cgccgtgacg gc 412

<210> 15410

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-B1

<400> 15410

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ggaagttact aaggtgctca aaaccaaacg gcaggtggtg accgggaccc tgcacgacct 120

gatactggag gcagctgatg ctggaaaaaa gagtgtgtac agagcanagg tttgggtgaa 180
gccgtgggaa gatttcaagt ctgtcgtcga gtttcgcctt gttggagact ctgaatctga 240
acccgagcct tctgttgctt ctgatgttag ctctgggcaa gcaattgcca aactctctct 300
tgaagcagat attgtacaag aagaggctcg cctgcacacc attgagaatg atgggctttc 360
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atg 423

<210> 15411
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-B10

<400> 15411
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ctgtaactgg ttgacagtac cactcatagc ataatgggta tactgctgat tacggtggac 120
ctagactgat ttcgatgtag agccaatatc accaacgtcc ttgactgtct catagaggag 180
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ggaaagttcg acgtctagaa tctct 265

<210> 15412
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-B11

<400> 15412
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tccgcgcgcg gggcaggcgc cgtctcccc cgggcccgcg gtccttgccg ctgctcggca 180
gcggtgtgtg gctcaccaac tcgccgcgcg agatcgagcc cctgctgcgg cgcctcttcg 240
agcgttacgg ccccgctcgtg gcgctccgcg tcggggcgcg cttgtccgtc ttcgtcgcgg 300
accgccgat cgcgcacgag gcgctcgttg accgcggcgc gacgctggcg gaccgcccgg 360

cgctcgcgtc ggtcaagttc ctcgacgaga gcgacaacac

400

<210> 15413
<211> 265
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-018-Q1-K1-B12

<400> 15413

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ggcgacatgg tcacggacgc ccncggcacc gccttaccgt ccgtcttcgg ggcaccgtat 120
ccgccggacg tgggtccggt caccacaaag ctgctgtcct gcaacaagcg ccaagcctac 180
gcaagtctcc ggcgggcttg gcaaccagac gtcggggcaa tcttggggta ccggcccggc 240
ctgggtccgg attccccggg ttccc 265

<210> 15414
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-018-Q1-K1-B2

<400> 15414

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tcttctgccg cgccaacgag aactactgcc tggcgtccg cgacggcgcc gtcgtgctgg 180
ccccggtcaa cccaaggac gaccaccagc actggtacaa ggacatgcgc ttcagcacc 240
gggtcaagga cgaggaaggc atgccggcgt tcgcgctcgt caacaaggcc acggggctcg 300
ccatcaagca ctccctcggc cagtcccacc cggtaagct cgcgccttc aaccggacc 360
aggaggacgc gtcggtgctg tggacggaga gcaaggacgt gggcaagggc ttncgctgca 420
tccgcatggt caacaacacc c 441

<210> 15415
<211> 397

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-B3

<400> 15415

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ctgatgtctga cgttcagctt tacatccgat gaacattctt ctagttccag aacgctatat 300
agatggaaaa gggatttgct cacagtaagt ggcgaagctc ttgccgcgaa tcacacagaa 360
cacatcgacc cagagattac aatggctatt gcacgag 397
  
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<210> 15416
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-018-Q1-K1-B6

<400> 15416

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gatgtaacag acctacagta gggatgctag gccaaaggagt taaaatatat ccacatgtta 180
gaatatttcg taactgtagt aacttcaaca ttatatagat taatcatgaa cttttagttg 240
tattaaacaa ataagctctg tatgttcatt gttgtagaac taagtttatt gtgaatttgt 300
gaacacatat atttgttcat gaaactgcat tggatttgga ctaacaaagt ttgtgtatgt 360
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 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-018-Q1-K1-B7

<400> 15417

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accctaattcc aagcaactgc ttgtgtgttg ggaaattctt gtgacccttg ttatattatt 180

atccgtgtag ctactagett cattcccccc tttgtaccca tcaaattggct ggcattgtctc 240

tgcaacacccc ctgggcggtt gctttcgggc tactaggtaa cgtcatctca ttcattgacct 300

tcttggtccc gataccgacg ttctaccgca tctacaagag caagtgcacg gaaggcttcc 360

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tcaagtccaa cgag 434

<210> 15418

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-B8

<400> 15418

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tccgctcggc tcgagcagaa gaaaatgcaa cgggcagtgc agaccgtcag gtcacacggc 180

aatgttctta aatatgtgt tctacaacac atcagcgctc ccaagccagc aatgcttctt 240

gctgcctttt ctggtttcat gtcagtttca tctgctcgcc tagaggatcg tggatttgaa 300

actgccactg tagcagatgt cttgaagtct aaagggaaga gtgctgatgg atcttggtc 360

tggtgcacca cagacgatag cgtctatgac gctgtcaaat ctatgactca gcacaacgtg 420

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<211> 395

<212> DNA

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<223> Clone ID: LIB3060-018-Q1-K1-B9

<400> 15419

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 gacaatggca ctggaatggc caaggctggc ttagctggct atgatgcacc aagggcgggt 240
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<210> 15420
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-C1
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 cctcaccacc gtgtacggca tgtcggggcg cagcgccgnc accctgctca gcctctggtc 360
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 ctacgc 426

<210> 15421
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-018-Q1-K1-C11
 <400> 15421

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ttattttctcc accccaatat ccaaacataa gataaaaatc tatccaacac tcattttccca 180
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 gccgccgcat ccacgtcgct cgggccgtg tcaccgtccc cacctcgcat cgcgagtttg 300
 ccccgctcgtt ggtgttgggg aatcccgtg cagtcctcgc ggccggagcgc attccatgct 360
 gaacggcgga ggccggagcac tttattatgc gctgctgata aagctcctga agaatccctc 420
 aagaa 425

<210> 15422
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H3

<400> 15422

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 cacatgacat gaacgccttc cataaactgg tcattgacga tcaacagctg ctacgtacat 180
 caagttcaac acctagatgg ctaagctggc ctttaaccta tgaacatctg ctgtttacga 240
 tacgagatct acgttctttg tagcaaata caatgctagt ccattgacag aatgtgctgt 300
 atactggtct accgcttcca gcataactac cattcggaac ccgccactct ttgagtatgc 360
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<210> 15423
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H4

<400> 15423

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 cctctccttg ggccggggcg cgcacccggg ctactccgac gccgacgaga gcgcgtgcac 180
 ggtggacgcg ggccgggagc tgctgccccg gctggaggag cgcgggccccg gcggggcgag 240

catcatcgac atcacgcacg cggtcgtgcc ggacctgccg gcgttcgcca cgggggcggt 300
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 ggagctgcgg atggagtgcc acaccggcac gcacg 395

<210> 15424
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 <212> DNA
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 <223> Clone ID: LIB3060-017-Q1-K1-H5
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 agccgccgag ctacctgacg ggcgagtcc cgggcgacta cggctgggac accgcggggc 300
 tgtcggcgga cccggagacg ttcgccaaaga accgggagct ggaggtgatc cactcccgtc 360
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 agttcggcg 429

<210> 15425
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-H6
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 aattggggta cacgcgtgca acgatgatcc atagatccaa taacgatatg caggcctctg 180
 cgtcccggat cgctcgtggc ggacaggacg gtgtgctaca cgtcggcaga ctgccatgtg 240
 agcctccgag ctaacggatg ggcgagacac ggctatacta aggctggcac tcaggctgac 300
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ggtccatgct aa

372

<210> 15426
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H8

<400> 15426

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaggggggg ccgttttaag ggaccaagt taacttcccc 180
gggcttgcaa cgtaaaagct tttttaaggg gaccccaaaa tttaaattaag gggccggggtt 240
ttaaaaacgt cggaacggga aaaacccggg ggttcccaaa ttaaatcgct ttgaaaaaaa 300
tccccctttg caaagtgggg ttaatagcaa aaaggcccgga acgaatggcc tttccaaaaa 360
tttgccaacc ctaaaggga aaggaaccc cc 392

<210> 15427
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H9

<400> 15427

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actattcata taggcgggta ggcgtccgag gcctcgtttg ttctcggtt cttgtctcca 180
agggtgctac tccgtccgag cttggtctgc tctcgtcctt ccggaggccg cggcgcaaca 240
tggcgaagat caagccgaag gccttgctcg cgcaaagcaa ggtgaagaag gtccccggcc 300
aaatcagcgt ggccacgata gtcacctaca tgatcctcgg cgtcctggtc gtgtcctccg 360
tttacgctgc ctacaggtac tgctgggcag tcacaggagc agcggatgca gtgggcgccc 420

<210> 15428
<211> 429

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-018-Q1-K1-A1

 <400> 15428

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 ggcgcggggc ccatctgcgc gtccatgtcc atgtcctcct ccaaccgcc ctacgacctg 180
 acgtccttcc ggttcagccc catcaaggag tccatcgtgt cccgcgagat gaccgcgtcg 240
 tacatgacgg acatgatcac ctacgccgac accgacgtcg tcacgtgtgg cgccggctcc 300
 gcggggctgt cctgcgcgta cgagctctcc aaggaccccg ccgtgagcat cgccatcgtg 360
 gagcagtcgg tgtcgcgggg cggcggcgcg tggctggggc ggcagctgtt ctcggccatg 420
 gtggtgcgc 429

<210> 15429
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-A10

 <400> 15429

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 aaccagaacg tacgccggca acccatctcc ctgaaatggc cgctgtggag ccccggcagt 120
 tcgggctctt ggagccgggc tctcgcgcag tgcgcgtggc cacgaacggc gccaaaggct 180
 accctcctcc ggcaagccac ctcccgcggc gcgctgactc cctgttccgc ggctgcagct 240
 tccctcccct cgtctccccg ccgcgcaggc tggacgacgc gtcggacgac gaggacgagg 300
 agcaggagga ctggcgagag ctgtacggct cgcacctgca gctggagggt gagccccgcg 360
 tgcaggacgc gcgcgacgaa tgcaccngg acgcgtggat cgagcggaa cctgtgcctgg 420
 tgag 424

<210> 15430
 <211> 338
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-A12

<400> 15430

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atcaaccagt gcaacgaaat aaaagctgcg aatcttgcta gcaaagaggg cggtgacctc 120

aacatagtga aggcggatgg tgaggaatct aaatcaaaga aataggaagc cagaaactga 180

aaacgagtgt gtgaaacgtg atgcgtggta aactgttaat gcgatgtatt ctgctgaaga 240

aaattcagtt ccgtatggct gggtagatga acatgtttag cgcaaagtga cggtgtaact 300

gcaaccgggg taatggcttg caagttttgt tctgtgcc 338

<210> 15431

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 15431

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actgcaaccg accaagggcc aatggcccga accgcggcgc cggccgcggg ctacggagag 120

gacggagtgt accgctcccc gcgcccggcc gtgcgcacgc agtccgacac aggcctctcc 180

ctcaacgacc tctctttccg ccgcgcccgc gtgtgcccct ccgtctctgc gctggtcgac 240

tccgncaaccg gccaatccct caccttcgcc gcctttcgtc ccgcgcgtcct caccacggcc 300

gtcgccctct cctcgcgcg gcggcgccgc cgggcgacg tcgtcctctt cttcgcccc 360

aactgcttcc tctaccccg ctgcttcttc gccgtcaccg ncctcggcgc cgtcgctacc 420

ac 422

<210> 15432

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 15432

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cagcagtcgc ccagctccag cgccaagttc aggctcctct gcctcctcca tgacaagtcc 180

gcgtcgccaa cgacgtcggg gcagatgcag agctcacagt cacagttgca gaggctggcg 240

acggtgttgc agtgccggagc cgtctgggca gctgttgagg cgccggcggc gctggcggtg 300

accggcgagg aggacatcga cctgctaggg atcctgccgc cgctcgcggg gtctgccttc 360

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cgcaattcg tggagacgta cctg 444

<210> 15433

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H2

<400> 15433

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gttgtcaatg atgcaaacat gcaagctaac tgcagacagg cactcgcaaa acaatcttac 120

acatgacatg aaggcaattc agaaacaggt tattgatgat caaaagcttt tacgtgataa 180

ggttcaacac ctgagtggcg atgctggcct tgagcggatg aactctgctc tttccgatac 240

gagatcaaag ttctttgaag caaaggagaa tgggagtcca ttgacagcac ctgttgcaaa 300

tgtgtctacc cttttgagca tcaattcgtc tgggaaagca ccactttctg aggttcctga 360

aagttccagg acaaagtgtg ttgggacaag ctctgtagtc cgttctttgt tcagtgcctc 420

ttcatcatca gtcag 435

<210> 15434

<211> 421

<212> DNA

<213> Zea mays

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<400> 15434

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 cctcctcctc ctctccgccc cccggggggg cgtcttcttg gagacgctcc tctccgccc 180
 cccggtcctc cccggcgacc tctcccgtt cctgccttgg cccgtggcgc agccgtgct 240
 ccgcccctc gcgctggggg gcccgcgga cctgctcccg gctttcgctg gggccgccc 300
 cgcgccgggg tccgacgacg cctaccgggt cgcgagtggt aaggcgccct gcttctacga 360
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 c 421

<210> 15435
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-G10
 <400> 15435

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 gatccctacg atgacttggg aagtgatggt gtgcataaca gtattaggag cggtgaaaat 180
 gttgctaagt gcctacgagc agttatgcag ccgctagtcg caagccaatt tggagaacct 240
 attctcgata agttattcaa agagtacgct cgcggtgttg ccaaacacct tgagaatgag 300
 aaaaccaagc atgctattat tgtcctatcc atcgagaaag caattcacct gtgaagtgta 360
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 t 421

<210> 15436
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-G11
 <400> 15436

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gccatgaaac agaggttggt gtgggcgttc accggtgtca agaaccagc ttatcccgac 120
 actctttaca tcgactgtct cattggacct gacactgtca acacgatgcc cgaccaagct 180
 ttgcaggcat tcatagacca cggcactggt tcgaggacag ttgatgcaa tgtgtacgag 240
 gcggaagggtg tatacagcgc cttggacaat cttggcattg actggcgca ggtcagaaag 300
 cagcttgagc tggaagggtg ggactccttc atgaagagct ttgacagcct actcgtgagc 360
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 ccgg 424

<210> 15437
 <211> 379
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-017-Q1-K1-G12

<400> 15437

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 actctctaca tcgacagcct cattggacct gacacgggtca acactatgcc cgtacaagct 180
 ttgcatgcat tcatagacca cggcactggt tcgaggacag ttgatgctaa tgtgtacgag 240
 gcggaagggtg tatacagcgc cttggagaag cttggcattg actgnggcga ggtcggaaag 300
 caacttgagc tggaagggtg ggactccttc aagaagagct ttgacagcct actcgtgagc 360
 ctgcatgaga agggcaaca 379

<210> 15438
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-G3

<400> 15438

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 aattccaaaa actgcatctc gtcacagcct cgcagattgg atgcgtgatt cacacggctg 180

gtttggcatt gtttgaacac atgagaagga agggctgttc catacggttg gaagacgaca 240
 tgttgcgttg tgtactatgt atttagacga agactgttct tttttacgct gaaaaataaa 300
 ttgcatcttc cgtcttttct tgtgatgagc tccttttctc tctctttttt cttttctaga 360
 aaaaaaaga gtgagacact atacgtgttt gttacctgca aggtttatgc tacttt 416

<210> 15439
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-G4

<400> 15439

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 tcttttttac gcttaaaaat aaattgcac ttcctacttt ctttgtgtat gactcctctt 180
 ctctatccta tttcttttct acaaaaaaaaa atagttatac actataccta ttagttacct 240
 gcaagtttta 250

<210> 15440
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-G6

<400> 15440

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 aggccctgcc gtcggctgta cgtggaacct gtgcatttgc ttctctgagc tctacggcta 240
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 aacatgtatt cacagttgaa aaagaaagtt gttagaacga taggccta 408

<210> 15441
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-G7

<400> 15441

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 ctccccctgc cttctagatc ccaacctgtt gcatcatgtc cacttttcag gttctgcacg 180
 actggacgct gaggctagag cactgtcctg tttataaact aatatccaga acagcgccac 240
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 gatctgtcac ttcagtatga cgccaccttg atagcccgat gtcgaattac ctgactatat 360
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<210> 15442
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-G9

<400> 15442

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 gctagttcaa cactccattt gcaagctgct ttgataattt cattaccttc acgagcaaaa 180
 atcgcgccct tcgttacaag cttgtacaca ggcttctaaa gccacacgat tagctgctgc 240
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<210> 15443
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H1

<400> 15443

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gtccgtgccc agccactacc gtgcactgcg cgtggtcgct ggccgcgtgc gtcgacccaa 180

ctgatggcac gacctccctc accttcgtcg ctaacctgat ccatggaagg cgaaagatcc 240

cctgattacc cctctccttc caacctgtgc ggctccacc tgcttcgact ggccgtctta 300

ctgcaccgtc gtcaccgtca caaccaccat gcggaggcgg atccacgtcg tctaggtcga 360

cgtcccgttg ctggagacta ggcgaggcc catcaactaa cacgccaccg tctcgcacc 420

gcatgagggtg ctcacgatgc ggg 443

<210> 15444

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H11

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cacgtacacg ctggacgaga tcgagggccg gtcgaggtc ggctccgacg gcacgtcaa 180

gttcgaggag aaggacggca tcgactacgc cgccgtcacc gtgcagctcc cggggggcga 240

gcgcgtgccg ttctctttca cgtcaagca gtcgtcgcc accggcaagc ccgagagctt 300

cggcgggtcc ttctctgtgc ccagctaccg tggctcctcc ttctctgacc ccaatggccg 360

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<223> Clone ID: LIB3060-017-Q1-K1-F8

<400> 15445

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 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-017-Q1-K1-E4

 <400> 15446

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 cgtcggccc attcaagcg tcgaggagg acgacgggta cgaccgccgc gggggccgcg 360
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<210> 15447
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-E5

 <400> 15447

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 aaaaagacga tcagccgaga aattagaatt gttcagaatc tttgtggagg ccataacatt 360
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<210> 15448
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-E6
 <400> 15448

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 cggagacacg cgggagagaa gagcaatcca agtctacctg cgctgcaagt gatgtggtca 360
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<210> 15449
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-E7
 <400> 15449

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 cgcgcttcaa cttctcccat ggctcccacg agtaccacca ggagacgctc gacaacctgc 240
 acgcccgcct ggagctcacc gggatcctct gcgcggttat gctcgacacc aaggggccag 300
 agattagaac tggatttttg aaagatggga agcctattca attgataaaa ggccaagaaa 360
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 agaagcttgc tg 432

<210> 15450
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-E8
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 gccactactg ctgtgtgtgg gcacagtccg agaacttccg cgagctatag cctgacgagg 180
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<210> 15451
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-F11
 <400> 15451

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 agcgtcggca ccaatggctt actaccagga ggtggactac tgctcggagg aggtgaggtc 120

ggtggccccc gccggcttcg gccgccacgg cgccggcgtc cagcagcacg tcgtcaagga 180
 gaagttcgag gaggtcgaca cggtcgcacg cgccggcgcc aaccaccacc accaccatgg 240
 tcaccacggc ggccacggct tcgtggtgcg cgagaccagg gtcgaggagg acatcaacac 300
 ctgcaccggc gaggtccacg agcgcatgga gagcttctc gccagggcta actgagcagc 360
 ccggggcgcc ggcatccacg cccgttcgtg cctgcctgcg tgccttatgt atgtctgtga 420
 ttgt 424

<210> 15452
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-F2

<400> 15452

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 gtaccagggtg ttccgggaca acctacgtta catggacgcg cacaacgccg tcgtcgacgc 120
 gggcgtgcac tccttcgcgc tcggcctcaa ccgcttcgcc gacctgacca acgacgagta 180
 ccgcgccacc tacctaggcg ccaggaccag gccgcagagg gagaggaagc tcggcgccag 240
 gtaccacgcc gtcgacaacg aggacctgcc ggagtcgctc gactggaggg ccaagggcg 300
 cgtcgccgag gtcaaggacc agggcagctg cgggagctgt tgggctttct caacaatagc 360
 agctgtggaa ggcatcaacc agattgttac aggcg 395

<210> 15453
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-F5

<400> 15453

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 tgcttgccgg aaccctagcg acgccgtgg gacgcgacgc cgacgcgtat ggagatctcc 180
 ttcgaggcgt gggagggcgt gcagcggcat ggtcaggacc tcgcggaccg cctcgcgag 240

ggtttcacgg gcctgctcca ggtgccgcgg cagttcccggt ggccgcccgtc gccgcacaag 300
 cggatgccct tcgacatega cctccccgtc gtecccttcg gcgcggggcg cccctcgggc 360
 gtcccgggtga aggacttccc cttectcgcc gcggccgtct cctcgggtcat cgacatcggc 420
 ggcaggct 428

<210> 15454

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-F6

<400> 15454

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 atgatttcac agcttgacag caggaaagct catctgagtg ctctgcaaca ggaaaggggtt 180
 gagaaagtaa accaagggtcc ggaagatata tctgcaaata ttggggccagt ggaaaaggaa 240
 catgttcatg gggatctgac tttgcaatct gctagtgccg tactctctat tagctgcaat 300
 ggttctaata aaggaaactaa atctgaaacc aatcttcaac catggactgc tacagatgat 360
 aggatggctt ttggagagca gaatgcggaa aagtctcact tagaactcat tggtta 415

<210> 15455

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-017-Q1-K1-F7

<400> 15455

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 gccgcccata gaatccagct tctccaagtc caaggcaccg tcgcgacccc catcgtcgcg 120
 acgacctgga tctgacgcgc ctccccctgc cgtcgccgcc ctccgctctg taccttctcg 180
 cggcgaccgc cgtgctcgga ctctcggcg gccttctact ctacatgctt gcccggaagc 240
 ggggggtcga cgccggcgag gtccaggact tgcacaacaa ggccccccgc gccgtcgcca 300
 ccgtcccagt ccaggactag gactagcacc aggaggaggc tgcggaaatg gccggcaggg 360

cgcccagat cgatgaggac ctncacaggc gacagctcgc cgtctactga cgcgagacta 420
tgaagcgctt t 431

<210> 15456
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-017-Q1-K1-E2

<400> 15456

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caaaagcgtg ccgggagcta ccgcgggggcg gctctgcgcc ctccgagacg gggatgttgt 120
ggagctcggc gccgtcacgg ggaaggggtt cccctcgcac aggataaatc cgcccagcgt 180
cgcgagacac gtggtcatct tcgcgggcg gacggggatc agtgcgattc gatcacttat 240
tgagttcggg ttcgctgcca aagaaagagc tgatgtgagg ctttattatg gtgatacaag 300
tctgaaatct atgtcatacc aggaaaggct tagtaactgg gagtcaactg gaattaaaat 360
aataccagtc ttatcacaac cagatgacag ctggaaaggt gaacgaggat atgttcagga 420
tgctntcttc agaaacaag 439

<210> 15457
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-C9

<400> 15457

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tgggcacccg cctggcgggc ccggcgccac agaacggggc catcgtggcc cggttcgggt 120
tcgggttggg cggcaaggcg aagcctgctc cgaagaaggt ggcaagaca tcgacctcct 180
ctgaccggcc gctgtggttc cccggcgccg tggcgcccga ctacctggac ggctcgtcgt 240
tcggcgacta cgggttcgac ccgttcggtc tcgggaagcc cgtggagtac ctgcagttcg 300
agttggactc gctggaccag aacctggcca agaagtaggc cggcgccatc atcggcaccc 360

ggttcgagtc ctccgaagtc aagtcacccc cgttgcagcc ctacagcgag gtgtt 415

<210> 15458
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D1

<400> 15458

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cggccgtgcc ttctccacc accagccgag gcacaccgc ggaaccgtcg ctcgagctcg 120
cgcctgaacc ccccaaactc tgccaaattt cgccaaatcc agccggtcgg accccgcaac 180
acatcgccaa aaccaaccgg gccggccgac acaagccgca gcccgtaggg atggacctgg 240
cgtcgagcga ctttgcggcg ctggggcgagg cggagctggt ccgctgtctg gcgtcgatcc 300
cgcgcgcggc tccccgcacc ttgcgct 328

<210> 15459
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D10

<400> 15459

ggcaaaagcc aaaaggcatc accgccgga cgacgatggc agcctcgctc caagccgcgg 60
ccaccctgat gcagccggcc aagatcgagg gccggggccc ctttgctctg ctgccgtccc 120
gcccgtagtc gcaactcgcc tgcagggcgt tcggcgctga ctccggcgcc gcctggatca 180
cgtgctgcct gcatgacgtc gccagcagg gcgtcgacgc cgcgaagctc gccggcttcg 240
cgctcgccac ctggcgctc ctggtgtcgt gcgccagcgc ggaaggcacg cgcaagaggc 300
tgacctacga cgagatccat agcaagacgt acatggaggg gaagggcacg ggcac 355

<210> 15460
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D11

<400> 15460

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ccaatccac ccctgccacg aagagatcag atgacggcga gctgctgctg atcgagtga 120
gtggaatcgg aggcgatgcg ggctagccgg ccggcggtgc, accctgtgga gcggccccctc 180
cgccgcccgc cgcgggcgcg gagggggccg agggccagggt ggaggggtgcc gcgcaccgcg 240
gcgggggtgcg gatgaaggat ccgcctgggg caccagggac acctgcgggg cttggtctac 300
gccttgcgca ggccttcttc gcagccgctg cgctcgccgt catggcgctc accaacgact 360
tcccgctcgt ctctgccttc agctaccttg tcgcagcagc cattttgcag tgcttggtga 420
g 421

<210> 15461

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D12

<400> 15461

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gccggcgtga actccagcgt agtagggctc aagcccgcg cgtcagtgcc gtaggcgcg 120
gccgactcat cgggcgcgaa gcgtatgcag ctggccgcgc ccgatggcca gcgcgcgct 180
ctgctcggcc tggcgccgct cttcgccgctc acggccacca ccgggtcggc caaggccacg 240
atcttcgatg agtacctcga gaagagcaag gccaacaagg agctgaacga caagaagagg 300
ctggccacca gtggagccaa ctttgcgcg gcctacaccg tggagttcgg cagctgccag 360
ttccoctaca acttcactgg gtgccaggac ctgcceaagc agatgaaagt ccccttcac 420
agcga 425

<210> 15462

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-017-Q1-K1-D5

<400> 15462

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 cgaattcctt cctatcgaat tcctatagta aaattcctat aggatagaac gtacacaggg 120
 tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc tttttttatt 180
 taatgagttg atattaatta aatatctttt tttttagatt ttgcaaagg tttcatttac 240
 gcctaatcca tatcgagtag accctgtcgt tgtgagaatt ctttaattcat gagttgtagg 300
 gagggactta tgtcaccaca aacagaaact aaagcaagtg ttggatttaa agctgggtgtt 360
 aaggattata aattgactta ctacaccccg gagtacgaaa ccaaagatac tgatatctng 420
 gcagcattcc gag 433

<210> 15463
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D7

<400> 15463

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 cgaattcctt cctatcgaat ccctatagta aaattcctat aggatagaac gtacacaggg 120
 tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc tttattttatt 180
 taatgagctg atattaatta aatatctttc tttttagatt cttgcaaagg tttcatttac 240
 tcctaatcca tatctagtag accctgtcgt tgtgagaatt ctttaattcat gacttgtaag 300
 gagggactta tgtcaccaca aacagaaact aaatgaagtt gtctggattt aaagctagtg 360
 ttaacgatta ttaattgact tactaccacc ctgaatacga aaccaatgat actga 415

<210> 15464
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D8

<400> 15464

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 tcggcatcgg cacaccgccc cagaacttca ccgtcatctt cgacaccggc agtccaacc 120

tctgggtccc ctctccaga tgctacttct cgattgcctg ctacctgcac cacagataca 180
 agtcggccaa gtctagcacg tacaaggcgg acggcgagac ctgcaagatc acctacggct 240
 ccggctcgat cgccgggttc ttcagcgacg acgacgtgct ggtcggggac ctgaccgtca 300
 aaaaccagaa gttcatcgag acaacgcgcg aaagcagcgt aacgttcata atcggcaagt 360
 tcgacggcat cctcgggtctc ggataccccg agatctccgt cggcaaggct cctccgatct 420
 ggcagagcat gc 432

<210> 15465
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D9

<400> 15465

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 gaacaagttc cgcatgtcac tgggtctacc ggtggcgcc acggtgaact gcgcggaaca 120
 cacgggcgcc aagaacctct acatcatctc cgtcaagggc atcaagggcc gcctcaaccg 180
 cctcccgtcc gcctgtgtcg gcgacatggt catggccacc gtaaagaagg gaaagcccga 240
 cctcaggaag aaagtgatgc ccgccgtcat cgtccgccag cgcaagccgt ggcgtcgcaa 300
 ggacggtgtc tacatgtact tcgaagataa tgctggagtg attgtgaatc ccaagggtga 360
 gatgaaaggt tctgcaatca ctggacctat cggcaaggag tgtgctga 408

<210> 15466
 <211> 83
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-E10

<400> 15466

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 agacctgcca gcaacatggc ggc 83

<210> 15467
 <211> 415

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-E11
 <400> 15467
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 caacaacacg aggaggagga ggtgcaaggg aaggctgtcc aagaagaagt gcaagtcgtt 120
 caagagacgg tgggtgccgt gccgtcggag gaggacaagg aggccgaggc ggcgctgggt 180
 cacaagatct ccagcctggc cgccgtcatc gcgaagctgc catccctgag cccgtcgccg 240
 gaggtgaacg cgctcttcac cgagctcgtg acggcgtgca tcccgcgcag cagcgtggac 300
 gtggagcggc tgggcccga gctgcaggag atgcgcggcg ggctgatccg cctctgcgcc 360
 gacgcggagg cgctgctgga ggcactactc cgacctgctg gcctccttcg acaac 415

<210> 15468
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-E12
 <400> 15468
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 aggaagaaga gaactagtcc ccaagcctaa caagaaagca agctcttctg caactgttgg 120
 cattcgccctt aatttgtatc catatcccaa tggcaggcct atctctgcaa caccctggg 180
 cattcacttt cggcctccta ggcaacgtca tctccttcat gaccttctg gccccgatac 240
 cgacgttcta ccgcatctac aagagcaagt cgacggaggg cttccagtcg gttccgtacg 300
 tgggtggccct gttcagcgcc atgctgtgga tcttctacgc gctgatcaag tccaacgaga 360
 cgttctcat caccatcaac gcggccggct gcgtgatcg 399

<210> 15469
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-C7
 <400> 15469

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 cgtcgcccg agggcgacga gggccgcata tcgaagcgct cccgctcggg ggaggaccgc 180
 gagcggggcc ggcaccgcag cggttcgggag caccgggatc gggataagga tgacgggaag 240
 gagaaggaga ggagccgcga tagccgcggg aaggacagag acaggggaag gagagaacgg 300
 gagaaggaga ggggggacag gcaccggccc agagagagg aggtggaacg ggagcggagg 360
 agcctgagcc gttcggagcg gcgccgtatc gaggaagagg agatggtgag ggagctggag 420
 atggagcgcg agc 433

<210> 15470
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-B12
 <400> 15470

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 gcaccgcagc cgccggccat ggctgcctc accgacctcg tcaacctcaa cctctcggac 120
 accacagaga agatcatcgc cgagtacata tggatcgggt gatctggcat ggatctaagg 180
 accaaagcca gaacctccc gggcccgggt accgatccca gcaagctgcc caagtggaa 240
 tacaacggtt ccagcaccgg caaggcccc ggcaaggaca gcaaggcaat cctgt 295

<210> 15471
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-017-Q1-K1-B2
 <400> 15471

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 tgaggagcgg gccccgccc cggtgttgc atgggtctcc gacctcatca actgagggaa 120
 ctctggaac taccagctca gaagttcggg gggggggggg gggngggcg ggagcgacga 180

acgctaatgc ggcgacttct taactcgcta gctcttacac agttatgtac ctgatccttg 240
 tacagatggt gctgatgtgt gaatagaatc gtaagcacgt caaagggagc caagggctga 300
 aaagggacac ctacctt 317

<210> 15472
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B6

<400> 15472

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 tcgagcagaa gaaaatgcaa cgggcagtgc agaccgtcag gtcacacggc aatgttctta 180
 aatatgctgt tctacaacac atcagcgctc ccaagccagc aatgcttctt gctgcctttt 240
 ctgctttcat gtcagtttca tctgctcgcc tagaggatcg tggatttgaa actgccactg 300
 tagcagatgt cttgaagtct aaaggaaga gtgctgatgg atcttggtc tgggtgcacca 360
 cagaggatag cgtctatgac gctgtcaaat ctatgactca gcacaacgtg ggagcttttg 420
 tggttgtcaa acctggacag aa 442

<210> 15473
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B8

<400> 15473

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 aagaagcatg ctgccgggac ctacaaaagc ctggtctttt acctgaagc atgcgaatct 120
 gggagcatct ttgagggcct cctgccgaat gacatcaatg tgtatgcgac caccgcgtca 180
 aatgcagagg agagtagctg ggggacgtac tgccctggcg agttcccag ccctccaccg 240
 gagtatgaca cttgcttggg agacctgtat agtggtgctt ggatggaaga cagtgatttc 300
 cacaatctgc gaactgaatc tctcaagcag caatacaact tggtaagga taggacagcg 360

gttcaggata cattcagcta tggctcccat gtgatgcaat atggttcatt ggagttgaat 420
gttaagcatc tgttttcg 438

<210> 15474
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B9

<400> 15474

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gccgccctaa gccacgtgct gaggccttcg ttggtctctt cgccggcgac gagcacccaa 120
caattccgga aaaaagggtc gagggtaagg acatccagcc tcttgtctgc gacaatggca 180
ctggaatggt caaggctggt ttgctggcg atgatgcacc aagggcggtt ttccttagca 240
ttgttgccg tctcgcac actggtgtca tggtaggat gggacagaag gacgcatatg 300
ttggcgatga ggcacagtcc aagagaggta ttcttacgt caagtaccg attgagcacg 360
gtattgtgag caactgggat gacatggaga aaatctggca tcatactttc tacaacgagc 420

<210> 15475
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-C1

<400> 15475

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cagaatctga aacaatctgg aagcatggtt cccccaacag agcttgacaa ggggttacia 180
cctgcccag attcggttca ggttaaggat catgatcatt ctactgctga cagcaagctc 240
ccatattgta ctgactggtc tccacaagat ggcccgacat ttgcgaacca atcttcctt 300
cctgagccat ctggtgatcc gtccttgat gaggcacgt ttcagtcac tacattggtt 360
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ggaccagc 428

<210> 15476
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-C11

<400> 15476

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gaggagcagg aggagcagct cgccggcggc gggtacggcg agtccgccga gtacacggag 180
gccacggtga cggaggtggt gtccacgggc gagaacgagt acgacgagta caaggaggag 240
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gcactctacg agaagcacga ggcatagaag gacccggagc acgcgcaccg tcacaagatc 360
gaggaggagg tcgcggctgc ggcggccgtc ggctccggcg gcttcgcctt ccacgagcac 420

<210> 15477
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-C12

<400> 15477

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gtgagtcacac ctccgccgag ctgctagtct ctagctcctc cgaccattct gtcgcccga 180
caacttgtca caactgggtc tgctccatcg gctcctcgtc cggctttaac atcaccgtgg 240
ccagcagcca cttcaaattc gtgagcgccc aacgccgccc cctggttcac tccctccgta 300
cgcacatcgc ccttggtccc ggtccatgta gcgtgtctct acgctctgag tccctcgccg 360
cattattttt ggagttcgtc gtaacgcgct gccgatggtc tgcgtatagc gggagatctt 420
c 421

<210> 15478
<211> 424
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-017-Q1-K1-C4

<400> 15478

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cgaccgcagt ccgcgtcctg cgttcacgcg tgtacgcgcc gcggtggcgt tgtccgcccc 120
ctgtccgccc ctgacagacg cgaccagctc accacgcgcg tatggcgcac tggcgcggtt 180
caagtgtcca gccgtcgtcc gccaaagttgc ccggagcacc gtcgcgcgcc gcagtccgca 240
gacaaggaca taagggtgtct gacagtctga gcacgcggat ctgagcagag cagctgtctg 300
agcgcgctgc taaccatgcg gtcacgcgcg tgtatgagcg cacctacgcg cagatctgag 360
cagacaagac accggtcctc ctctgaacg gcataccga acgtcaccgc gggtcgccctc 420
ggcc 424

<210> 15479

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-C6

<400> 15479

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tctcttcggc gaggcccgcg tgacgatgcg caagacggcg gcgaaggcaa agccggcggc 180
gagctccggc agcccgtggt acggccccga ccgctgctc tacctgggccc cgctgtccgg 240
cgcgcccccg agctacctga cgggcgagtt cccgggcgac tacggctggg acaccgcggg 300
gctgtcggcg gaccgggaga cgctcgccaa gaaccgggag ctggaggtea tccactcccc 360
ctgggccatg ctgggcgcgt tgggctgcgt gttcccgag ctgctcgccc gcaacggcgt 420
caagttcggc gaggccgtgt 440

<210> 15480

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H6

<400> 15480

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gctgcgccat ccgggtcagc tgaactgagc atcatatcat ggagggagga gccggtccca 120
agccatcgga caagaggggtg gccctcgtca cgggcgggaa ccggggcatg gggttcgaga 180
tatgccggca gctggcgttc agcggactca ccgtagagct aaccgcacgg agcgagactc 240
ggcgcgcccta ggcggcacgc gagcttcacg ggttcggcct ggctgacgac ttgtgagacc 300
agctggacgt aacggagccc agcagcgctg atcatatggc tgatttcgat aggaccaagt 360
tcgggaagct caatgtgctg gtcaacaacg cggc 394

<210> 15481

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H7

<400> 15481

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ctcatcttgc tagccatcgc ctctacgtc cagtacactc gctggcaaaa ggggaaaggc 120
cgcttcggcg gccatgggag gtctgtccc ttgaagctgc ctctggctc catgggctgg 180
ccttaccttg gcgagaccct ccagctttac tcccaggacc ccagcttctt cttcgcttcc 240
aaacagaaga ggtacggcga gatcttcaag acgcaccttc tgggttgccc gtgcgtgatg 300
ctggcgagcc cggagggcgc gcggttcgtg ctggtgacgc aggcgcacct gttcaagccg 360
acctaccgcg ggagcaagga gcgcatgac gggccgtcgg ctctcttctt ccaccagggc 420
gactaccacc 430

<210> 15482

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A12

<400> 15482

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atggccctct cctccacggc cttcgccggc aaggccgtga acgtgccgtc gtcgtccgcc 120
ttcggcgagg cccgcgtgac gatgcgcaag acggcgccga aggccaagcc agcggcgggc 180
tccgggagcc cgtgggtacg ccccgaccgc gtgctgtacc tgggcccact gtccggcgag 240
ccaccgagct acctgacggg cgagttcccg ggcgactacg gctgggacac cgcggggctg 300
tcggcgagcc cggagacgtt cgccaagaac cgggagctgg aggtgatcca ctcccgtgg 360
gccatgctgg ggcgctcgg ctgctcttc cccgagctgc tcgccc 407

<210> 15483
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A2

<400> 15483

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cctgtcccta gccgcaaata ggcctgcga ccagccttac cgtctcgcg gcttctctggc 180
cgtctgcgcc gtggccttcg tcgtgacctg cctcctgcac tgggtgcttc cgtgaggccc 240
ggcgtgcggg aagtgggtgt ggacgcggca gctcattgcc ggtggctgat ctacagcgtc 300
actggctgc 309

<210> 15484
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A4

<400> 15484

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tggatagacc tgctcaggtg aaattacatt tgaggacca gatgagagga cagacattaa 120
agcagatgct gactcaccag ctggtgagac caaagaatgt gaaattacag tagaggcacc 180
atatgagaaa atagcagaca aaggtattgt tgaaccaata atcagggaga taactgaaga 240

tcaaactgca tctggagaac cagatgaaga agctacaaca actgaggaaa cggatatagga 300
 tgttaagggtg ctagatgata agtctacagc agatgggaaa cctgtataga atgccacagt 360
 cgcgacaaat gaggattcaa caacagttga gaatactctg aaggatgcaa tggttgcgcc 420
 accaggtaca aata 434

<210> 15485
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-A5
 <400> 15485

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 ccatgtcgga ctcgaggag caccacttcg aatcgaaggc cgacgccgga gcgccaaga 120
 cctaccgca gcaggctggc accgtccgta agaacggctt catcgatc aagaaccgcc 180
 cctgcaaggt tgtggagggt tctacctcaa agactggtaa gcatggccat gccaaatgcc 240
 actttgttgc catagacata ttcaacggga aaaagcttga agatattgtt cttcatcac 300
 acaactgtga tattccgcat gtgaaccgta ctgagtacca gctgattgat atatcagagg 360
 atggatttgt gagccttctt acttcagatg gcaacactaa ggatgatctt agactcccaa 420
 ctgatgag 428

<210> 15486
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-A6
 <400> 15486

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 ctcggcgtgc cttatatggg ggcgagctga ggagcaaagc ggacaacaag aggccttcga 120
 tcgatctccc tacctatctc tctctctctg ctatcccttc cactgcttac ctaccacta 180
 gcttttagta gaaagaggag ggccgggacg tggtgacaag gctaggctag cttggggccg 240
 gcggagatcg atcgctgacg tcgacggcca tgacatggtg caacagcttc aacgacgtgc 300

gtgccgtgga ggacaacctg gccaccgccc acgtcgccaa gaaacagcat ctgcaggcct 360
gcttccacgt caacctcatt aggacctgcc cctcctgcgg acaccgtgcg cagtatgacg 420
aacagcgatc ggatcgtec 439

<210> 15487
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A7

<400> 15487

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ccacgcggtg ccttatatag aggcaatctg aagagcaaag cggccaacaa gaggctatca 120
accgatctcc ctacatatct ctctctcttt ggtatccctt cctctgctta actaccgct 180
aactcttagt agaaagagga tgtacctgac atactgacaa ggctaggcta gcttgtggcc 240
gtctgagatc gatcagatgt gacgactgac atgacatggt gcaacagctt 290

<210> 15488
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A9

<400> 15488

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acgacgacga cgacgcagge gccacacatg gcatcccagc tctccgccgc cgtgccccgg 120
ttccacggtc tacggggcta cgccgcgccc aggtccgcgg tggcagcgct gccgtccgtg 180
aggggtgggca ggaagaggte gtcgtcgac ggcacccgt gcgactacat cggctccgcc 240
accaacctga tcatggtgac gacgacgacg ctgatgctgt tcgcggggcg gttcgggctg 300
gcgccgtcgg cgaaccgcaa ggcgacggcg gggcctgaag ctggaggcgc gcgactccgg 360
cctgcaaacy ggtgaccccg ccgggttcac cctcgccgac acgctggcct gc 412

<210> 15489
<211> 409

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-B10

 <400> 15489

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 ccatgtagtt ggtggtgttc taaacccgaa tgctgcgtac cttatccttc gaggtatgaa 120
 gacactgcat ctccgtgtgc aatgtcagaa cgacactgct cttcggatgg cccagttttt 180
 agaggagcat ccaaagattg ctctgtgtcta ctatcctggc ttgccaagtc accctgaaca 240
 tcacattgcc aagagtcaaa tgactggctt tggcgggtgtt gttagttttg aggttgctgg 300
 agactttgat gctacgagga aattcattga ttctgctaaa ataccctatc atgcgccttc 360
 tttaggaggc tgtgagagca taattgatca gcctgccatc atgtcctac 409

<210> 15490
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-016-Q1-K1-G10

<400> 15490

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 gttcgccgggt tcgcgcccgc cgccatggcg acttcctcag gaccaaagga ggcgccagcg 120
 aataaccctg ggctccagac cgaggctcgc cccgccacca aaggctactt cttgcaacaa 180
 acgatgttac gtgtgaagga cccaaaagtg agccttgact tctactcacg tgtgatgggc 240
 atgtcgttgc tgaaaagggt ggattttgaa gagatgaaat tcagtttgta ttttctaggt 300
 tacgaggatg tgaccttagc cctgatgat catatcaagc ggactgaatg gacttttagg 360
 caaaaagcta ctcttgagct caccacaac tggngcacgg aaaa 404

<210> 15491
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-G11

<400> 15491

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gatagagaga agtagagaac gcccgccacg gcgccgtcaa cgccacaccc ggccgaaccg 120

aaaccgagac tgcatectac ttcgcggcgc gccgagatga gcggcatgag cctcttccat 180

cgtctgcctc ctgtcgcgga ggctgaggac cgctactacg tgtatgcagc acaccgagc 240

ccacagcggc agggcgtgct gacgctcttc gtcgcggagc tccgcgacga cgtgaagcgc 300

cgatagattc acatcctatt ataccaccag cacgtcttcc atcactgtct actcgattac 360

acaggac 367

<210> 15492

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G12

<400> 15492

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ctcgagtttg ccatggtggt gatctggaac cggggtgtgc tgccccctct ttgattccct 120

gattggtctc gctccagttc gacgcgggat ttggacggga cgggcggaag ttgggagagc 180

agagcggccg gcatgttttg gtccagggtc caggatgagg tggagatgca gaggaggcct 240

aacaacagga tctttccga cgagagacaa aatcaatcta agtcattgta tcaaactaca 300

cgggctgaca gatttggcgc aaatagaata gatctgaaga atcctgagaa gcttaagggtg 360

ttaaagtaaa gcaacaaacc ctggcaccag cgtattctag accctggaag taatattgta 420

ctgagatgga acagggtgt 439

<210> 15493

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G2

<400> 15493

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tctaacatct gccgttcact ggtcgaacat atgcttggac acatgacata gagcgtcgcc 120
 ctctgcactg acacccatct atccgaccgt catggaactc agctgattgc gtacctgaat 180
 gcatggtagc tgttaggccc cagatagttg tcgcgctcat acagtaccta tgacgtgcat 240
 ctagctcggc cctatctcgg aaacttgcgc cacaccgga tggcatgac tggcactagc 300
 atccccacaca tcaatgccat ct 322

<210> 15494
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G4

<400> 15494

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 tagagccgca gtcaaggcgc tggaagacgg gcacagtctc agcggttgga tcagaaggat 120
 agaagaagcc atcgcttctg acagcaaata aatatgaccg ttgatccttt acatgtgttc 180
 ttgtcaacca agctttgttg gcagcttcca caggacgcgg aagaaggaga actttcttaa 240
 ttcgcgcgaa gggttagtgt gtgttgaac atgagtggcg cttttcaaag aaagaaaggc 300
 agaagatcct tggagctgga gggaatagcg gagaccacga ccagggcgctc tgatggacgg 360
 actagatcga gtgatacatc cgttggagat tttaaagaag tcaaa 405

<210> 15495
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G5

<400> 15495

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 ctttctcgta ataaatttgt cgatgttgag cccttaggct gttgttggtta cattgggtact 120
 tcgtcgatgc ttgaattggg accctttgtc cgttttccta gactctgatg ctgtatgcaa 180
 ctgaaacaag taaatctatg atcttaaggc tgcagtatgt tcttggtt 227

<210> 15496

<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G6

<400> 15496

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tattgggtac tatttgtcat acataccata attaaaatgg cagtgatggg ctttcaaaag 120
aaaggactta ccatgccgac cctatacatg gacgccgacc atgagaaggt aacctgatga 180
actgataacc aaataggcga ccgttatagg agctccaagg atagggtccc tacattcata 240
gctgatgatt ggcccacaag ggcttgtaaa tccatttcaa tgcctgtggc tgtcaaggag 300
cttgactgta aaaaacattc ttgaaccgaa ct 332

<210> 15497
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G7

<400> 15497

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agcccgtcga tctatagtca ccatatgagc taccaaagct ggttcggact gcggtccgca 180
tcaagagctt gaccaagtac catgtcgctt gcaagcaaca aacttctgat ctacaaagtc 240
tcttgatgtg gcctcaagcc ggtgtgctct ctccagggca ccgcatcgta gcagcatctg 300
gcaagctcgg agagcatcac cagaacaacg ataagccgtt tgacaagtgc aaggttaagg 360
ataacattgt aagcctgaaa gccaaaggac ctgagcagta cgaatctgaa ctgaatgaaa 420
agc 423

<210> 15498
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H1

<400> 15498

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gccgcatcac gggccccgat gcgatcaagt tttttg 216

<210> 15499

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H10

<400> 15499

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aacaaaaagg ctaaagatat gaatgacaca gaagagaccc caaaatcccc aaagatttct 120

gaagtgtctc ctcaatcacc caagatcatt cctctgactt ggtttgggaa tggatcatcat 180

catgatcaga aatcggtgc cagaaatggg tctggaaacc acaacaacgg atcaacagtg 240

gataaccaac ctgggggttc ttaccattaa gacatcatga ttcttgaagg gaaccctaaa 300

attacatcaa cttgtcccaa aaaccttccc ctttggga 337

<210> 15500

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H11

<400> 15500

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gccggtgctg ggactggaac cgggacggcg ggcagcagca ccttcagccc cagcgcgggc 120

accggcttca acggcaccgg gaacgggatg ggcggcagca ctactaccgg cctgggaccc 180

acgggcaacg cttttgacgc cgacgccgcc gtcgcgccgg gcctgctccc cagcgccgcg 240

tcctcggcc tcgcactcgc cgtcctctcc ttctaacct agccctgccg cgccattaac 300

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395

<210> 15501

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H12

<400> 15501

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tctctctctt acctagctag ctagccagcc ttctgttagc gcggcagata tggctgcctc 120

caccacggcg gcggcggcgg cgtegetgct gctgctgctg ctctgtctgc tcgccgcggc 180

ggcggacatg tcgatcgtgt cctacgggga gcgcagcgac gaggaggcgc ggcgatgta 240

cgcgagtggt atggcggcgc acggccggac ctacaacgcc gtcggcgagg aggagcggcg 300

gtaccaggtg ttccgggaca acctgcgcta catcgacgcg cacaacgccg gcgccgacgc 360

ggcggtgcac tcctt 375

<210> 15502

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-016-Q1-K1-H2

<400> 15502

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gtctgctggc gaggtaatcc gtaagaagct gtcgctttcc ctactagctg ttagatccaa 180

ttctacaact tcaatgcaat gcaagctcca tccttcaccg ctcagggacc agagagacac 240

agagacgtcc tgtaaggccg ggctgctct acacactggt gaccaaggaa tggcattact 300

ctgaactaga gacacgtntc ttgattaaca cgacaggacc aaggccagca gacggaacga 360

tttaagctgc gatactagag ctgacacaga atgcgctaga tcttgtctct gctgatcaga 420

ctggtcactt c 431

<210> 15503
 <211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-H3

 <400> 15503

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 gggcgctgct gccagaaccg aacgtgaagg tgtgctgccg agccaaccga agctacgcca 180
 tagatctgac acgacagtaa tgggttgctg gcgcacggaa actcgcaaga ctagtaccag 240
 cactggatca acgacatacg ctggagcagc tgcataagcg accatgaacg ttaagcgacg 300
 atcgc 305

<210> 15504
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-H4

 <400> 15504

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 ctagacgggc cgaaggcatt ggttaaaagg gtcccatct tgatcaacgg actcctgagc 180
 gtcaagctgt agaaggatt gcaagacatg cacagccgaa aggtcaaaga acaggccctt 240
 cattgctaaa cctagctctc atgggaggtt taacaagcta tacgactggc tgcggcacta 300
 acgcttgat ttgcgaaccc tttgttttaa tcct 334

<210> 15505
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-G1

 <400> 15505

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 tgtacaacga cctggggcgac ccggacaaga acccggccca ccagcggccc gtgctggggcg 180
 gcaacaagca gtaccatac ccgcgccgct gccgcaccgg ccgccccagg accaagaagg 240
 accccgagac ggagatgcgc gagggccaca actacgtgcc ccgcgacgag cagttctcgg 300
 aggtgaagca gctcacgttc gggggcacca cgctgcgctc cggcctgcac gcgctgctgc 360
 cggcgc 366

<210> 15506
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E5

<400> 15506

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 caaccggacg gcggcgtcga cttcgaccag tacgccgggt acgtgactgt cgacgagaag 180
 aatggccggg cactcttcta ctacttggtg gaggcaccac aggatgcctc ggcaaagccg 240
 ctctcctgt ggcttaacgg agggcccga tgctcgtcgc ttggctacgg agcaatgcaa 300
 gagctcggtc cgttccgct aaacagcgac aacaaaacgc tgagcagaaa caaggcggct 360
 tggaataacg tggetaatgt gatcttcttg gagtcgccgg cgggtgttgg attctcctac 420
 tccaacaca 429

<210> 15507
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E6

<400> 15507

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 cgccgtgaac aacctccgga agcgcatgat ctcccttctc ctccgggcac ctggatcacc 120
 atacgtccct tgccccact tcttcccgct cttctatccc caccgcctcc tctccgcat 180

caaatgcgtc gctacaaaac cattcgcctg cgaggactac ctctgcgcca catgcggcct 240
 cacccaagca caggccctca aggcgtcgaa gcatgtctcc catctgaagg atccctcgaa 300
 agccgacgcy gtcgtgcctt tctctccaa tctcggcctg tccagcgccg agatcaccga 360
 cgtcgtgacc agggacccca aagtcctctg ctccgacgtg gagagatccc tcaccgctcg 420
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<210> 15508
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E8

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 cggtcggcca gccgcgcca accgcctcag cccaacagt cgcaccgccc ccgcccaggc 180
 aaactcgaag ccacccccgc cgcgcgcagcc acagccgcgc cgagcttgag ccgtcgttgc 240
 tccgtgaat cgcgcccatc gtctctctctg aagagagagg acatttattg agacagcatg 300
 cctaagataa agacaagtcg tgtcaagtat cctgaaggat gggagcttat tgaaccaacc 360
 atccgtgagt tggatgcca aatgagagaa gctgaaaatg atccacatga tggaaagaga 420
 aagtgtgaag ct 432

<210> 15509
 <211> 397
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-016-Q1-K1-E9

<400> 15509
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 ccccctgttt gtgtacaacc ccatggcgac ccacgccggc gagaacggca gcgggacgca 180

gaacggcggc gggcacgcgg agtggcggtt cgcgcgggcg gcgaaggagg gcgcgctggc 240
 cggttgcgggg gacaagatga gcatccgggc ggtgcgggtt aagatcagcg cgagcctgga 300
 cgcgcgcgac ccgcggcccc tgctgccgct ggcgcacggg gaccctcgg tggtccccggc 360
 cttccgcacc gncgncgagg ccgaggacgc cgtggcc 397

<210> 15510
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F11

<400> 15510

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 cacaagttaa ggagtgcag caacaagaga tctcgatggc ctctgccacc gtgctcaagt 180
 cctccttctt tcccaagaag tgcgatggg gcgccaccag gcaggtcgcc gcgcccaggc 240
 cgcccaccgt ctgcatggtc gtacgcgcct ccgactacgc cgatgagctc gtgaagaccg 300
 cgaaaacgat cgcgtcgccg gagcgggtgca ttctggcgat ggacgagtcg aacgcgacgt 360
 g 361

<210> 15511
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F12

<400> 15511

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 cgctcgctgc cgccttcggc gaggccccgc tgacgatgcg caagacggcg gcgaaggcca 180
 agccagcggc ggcgtccggg agcccgtggt acggccccga ccgcgtgctg tacctggggc 240
 cactgtccgg cgagccaccg agctacctga cgggcgagtt cccgggagac tacggctggg 300
 acaccgcggg gctgtcggcg gaccgggaga cgttcgccaa gaaccgggag ctggagggtga 360

tccactcccc ctgggccatg ctgggcgcgc tcggatgcg

399

<210> 15512
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F2

<400> 15512

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cggtcggcca gccgccgcca accgcctcag cccaacagt cgcaccgccg ccgccgaggc 180
aaactcgaag ccacccccgc cgccgcagcc acagccgcgc cgagcttgag ccgtcgttgc 240
tccgtgaat cgcccccatc gtctctcctg aagagagagg acatttattg agacagcatg 300
cctaagataa agacaagtcg tgtcaagtat cctgaaggat gggagcttat tgaaccaacc 360
atccgtgagt tggatgccaa aatgagagaa gctgaaaatg atccacatga tggaaagaga 420
aagtgtgaag ctc 433

<210> 15513
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F5

<400> 15513

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gcctgcctac tagtgccggc tggaggtgga gcagtgggcg ctacagcctc catcagctag 120
ctgccttgcc gtgtcctcct ctctctcctg tcggtggcga tctctgcgga aacccgagct 180
tcgtccaagc cgggcagtag tgccgcgcgc ctgggcgtaa ttatggattc ttttgagggc 240
tctgatcata taactcaaag aaagggtgtt cctgcaaac atattgcatt ggttgatgga 300
aagaatgagc ctgctgtaga ggggttgctt aatggttggc tgaaagaatg caggcctaga 360
aagaaccgat atggatccag agtcaagagt gacacgttct atattgatcc aatcaatgga 420
ta 422

<210> 15514
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F6

<400> 15514

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ggaggagatt aggacgcagt accgcatggc agcgggaagac ggcgaggctg acagtccggc 120
accggcgcca gtgccgtcga ccggtgctgc tgctgcttcc ggccggcgga ctgaaaagaa 180
gaagcaggcg gacgactcgt cgtcgtcgtc aaagacgaca gaatgggttc ctcataagtt 240
ctctgagatc gtcggtcaaa gacgacctga tgaggatatg ttccgaggga tctaccttcc 300
acgatcggat cagcagccga aaacaaagaa gtactgggta gatgggagaa atgccaaactg 360
cttcatgctg ttccctaaag gattcagcat cacctggggt tcggacgaaa ggtactggag 420
ttggcgcaag ctc 433

<210> 15515
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F7

<400> 15515

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ccggccgtct acctccgtcc tctcgctcg ctcgctgcag gttcaatcgc cgccgccatt 180
tctgcagttt ttaattccca cgtcctgttc cggcccggcc gtgcactcca aattcttcca 240
acaaggccag cccacgccac ccggccggga tcccagaaaa gttgcgctcg gacttcgcgc 300
gttaagtctc ccaccagcc cttctatccc gtgatttcag aggcgcccct gtaccgaaag 360
cctagctccc aatcttcctt ggattcgtct tttttttgga tcttggggac tgcactgcac 420
ac 422

<210> 15516

<211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-F9

 <400> 15516

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 cctgtttctc cagagtgtct tctctgttg gctcgccggc ttctgtctcc ctgctcacc 180
 agcgcacgct tctccttgtg tgccgtgcct gcgtgctgct cgccctagct cccagccatg 240
 gcgtcggcc aagctcctgc gcgttatgtg cccagctccc ttttcgcgt atgcgcgctt 300
 agctcgcttt cctgcgcgcc cagcgttctg ctcccgtcg tccctgcgcg ccaagctcct 360
 tgcgcggtcc ttccttgagc tcggtcctgc gcttttctt tctctgtgct cgtgctcgcc 420
 gtgccgtgag tcac 434

<210> 15517
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-E4

 <400> 15517

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 atacgtgcct tgccccact tcttgccgct cttctatccg caccgcctcc tctgcgccat 180
 caaatgcgtc gctacaaaac cattcgccgt cgaggactac ctagtctgca catgcggtct 240
 taccgaagca caggccctta aggcgtccaa gcatgactcc catctgaagg atacctcgta 300
 agccgactcg gtcgtcgtct tgctatgcaa tctcagcctg tccagctcct agatcaccga 360
 ctctgtgacc agggccccca a 381

<210> 15518
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-D1

<400> 15518

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tgcaaaaact agcttggaaac ttatgaagga tgctaaacgc agtgggtgcaa gtctgtctat 180
agaaacatgc cctcattacc tggcattttc gtccgaagaa gttccagatg gagatactcg 240
ctttaaatgt tctcctacca tacgtgatga cacagacaga gaaaatcttt ggaaagctct 300
gcttgatgga cacatagaca tgctaagttc agaccactca ccatccactc ctgacctcaa 360
actaatggat gaaggggact tcttaagggc atggggaggc atatcatcat tgcagttt 418

<210> 15519

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-016-Q1-K1-D10

<400> 15519

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tctgcgtgac gctactctca cacatggggg tcaccgtcga gtcttccctt ggctcgctcc 120
tccataaact gctcctgcgc gctctgctcg tcctatggcg ctccggcatcc agttttctgc 180
gcgccgaact cttgttccca tcctgtgtgc actacaagtt tcttttctca atcatcgcg 240
agctccctcg agctctgtcc atgccgtccc tcgagctctg tccatgccgc gtcgtcgctc 300
gtcgtcacgt cgttcgccat caagcctcac tgtcattcct gttgtgcctc gtttcggatg 360
tgttcgatta aatgtcggat caagaatcca agatgtcgct cctnctcgct 410

<210> 15520

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-D5

<400> 15520

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aggggtagag agtaagagaa gtagttcatt cccttgccca acacaagaaa acaagctctc 120
 ctcatcacc taatccaagc aactgcttgt gtgttgggaa attcttgtga cccctgttat 180
 attattatcc gtgtagctac tagcttcatt ccccccttg taccatcaa atggctggca 240
 tgtctctgca acaccctgg gcgtttgctt tcggtctact aggtaacgtc atctcattca 300
 tgaccttct ggccccgata ccgacgttct accgcatcta caagagcaag tcgacggaag 360
 gcttccagtc ggttccctac gtggttgccg tggtcagcgc catgctgtgg atcttctacg 420
 cactgatc 428

<210> 15521
 <211> 323
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-016-Q1-K1-D6
 <400> 15521

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 tctgaagaag acatcgatat taccagcccg tggaagacca atgttctacc tggcctcaac 180
 aagatctttg acaaggatgg caacaacgct gcactctgcac gcttcttgaa acccttcaac 240
 aaagagcaca ttgacaagga gattgaagac aataagacat atctgcagcc caatgtcgtg 300
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<210> 15522
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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ccatggccgc tggcgctggc gctggcgagg gccgcctcgc catcttccgt ggcgacctcc 240
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 cgccctgcac cgctgacccc gtcagcgacc ccagaagca actgatagtg ccggcagtgg 360
 aagggacgct gaacgtgctg cgcgccgnca aggaggccgg tagcgtgcgg cgggtggtg 419

<210> 15523
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-D8

<400> 15523

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 atggtttgca agctttgggc gcaagaacaa ctctggaacc aagctctatt gcatctcagg 180
 gcatgtgaac aaaccttgca ccgtggaaga ggaaatgagc atacctctga aggagttgct 240
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 cggttcatct gttccccctt tgccaaagca catatgtgat gatgtgttga tggactatga 360
 tgcaactgaag gctgtgcaat ctggattgtg taccgcagct gttatcgtga tggacaaatc 420
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<210> 15524
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E12

<400> 15524

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 ctactcccg tcgtctctt cctcgtctc gctctcgtcg cggagcgggtg tggaggcgcg 180
 cgctcctgga aggcacgggg caagagcgga ggaagatcat ctgggtgttg gagtcatcca 240
 gaggcacaag ctgaggaatg gggcaaaagg actccaagcc ttcacatgga tatggctact 300

cttcttatga ttacgggagt gcttcatcgg gatacacctc gagaaacact gggaattcgt 360
cctccagtta tagcgtcagg tacgcgcctt cttcggagaa cagtg 405

<210> 15525
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E2

<400> 15525

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atggcacgca agctttcgac gccagagcta ctgtggaacc aagctctatt gcatctaattg 180
gcatgttaac aaaccttgca ccgtagacga ggacatgagc atacctctga aggagtagct 240
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ccgatcatat gttgcccttt tgtcaaaaaca catatgagat gatgtgttga tggactatga 360
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tacggatgt 429

<210> 15526
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E3

<400> 15526

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attggccgtc aggttgctac tgacaaatgc attatggcgt tcctgtttct gattgtctgt 180
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attccggggc tagcacctcc cgccatgaac aggaagctgc tgtccatcga cgctgcacga 300
ctctgagcgt tgtgaatggc tgccctccgc agcacagcgc aacgcagcgc gtcagagttc 360
tcttatgagc cactgatacat ggcttcgcga ttcttttgtg cttgtagttt acgttcgccc 420

attctt

426

<210> 15527
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B3

<400> 15527

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ctctcagttc ttctttctcc ttatctctcc cggtcggcca agcgcttgcg ggatctttct 180
cgctgcccag cttgctccag ctcggtgcc aagcgacgga aaaatcctgc cgaccagccg 240
ccgttcggtg gcatttatcc ctcagcccgt cgcgttcttc gctgtcccca tgccgcaact 300
tcaactgtggg gttgctcctg ccgcgcccct gttccaattc ctatggtggc gctcgggtctg 360
cagccgtgcc gtgatttctt gctcggactg cgcacagctc tgcccagcgc cgcggttgcc 420
gagctcg 427

<210> 15528
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B4

<400> 15528

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ctacgtacta aacgacgccc tgggtacttc aaccgataac gccaaagctt ttcgacgtga 180
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cgccgattac gccaaagctc tgggtggagat catgatggaa gccaaagatg ctaggatgat 360
ctacatcgct ctgatagtca tcaccgatgc acgaagctat ggtcagcaga tcataaccgt 420
c 421

<210> 15529
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B5

<400> 15529

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 gctatgatta ttcattctaa ataaagaaaa cgaaatgcaa ggaggatagg gattacctat 180
 gcaccaatgc atgaaagaga tagaattata attgaatata tcaacacaga tttggagggg 240
 tgacacaaca tgtataaaca tgattataat gaaaagggtt tgtttctttc acctaactaa 300
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 ggccatgttt ctaaatacaa ttgggcataa ccttagaaat aggtcgattg gcacgaattt 420
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<210> 15530
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B6

<400> 15530

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 ctcacgcggc accatacctg cgcacgcac aagaaatcca attcgctcgc gcacaggaag 180
 actgctctcg agagccgcat gatcatcttc tcccgaac 218

<210> 15531
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B7

<400> 15531

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gctatgaata ttcattctta aaaaaggaaa ccaaagcaa gggggattgg gattacctat 180
tcaccaatgc ctgaaagaga ttgaattatt attggatatt ttaacacaaa attggaggga 240
ttacaccacc tgtattaacc tggatattat ggaaagggtc tggttctttt aacttactta 300
acattttaaa gagtgggggt tactttaaga cacttttcat atgtgtgttg accaacaagt 360
gggcatgttt ctaaatacca ttggg 385

<210> 15532
<211> 193
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-016-Q1-K1-B9
<400> 15532

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tatggagtgc ttccagctcc ctgctccggt gactagggct cggcgtccgg ctccctggat 180
gcttgccctg etc 193

<210> 15533
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-016-Q1-K1-C1
<400> 15533

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gctatgatta ttcattctaa aaaaagaaaa cgaaatgcaa ggaggatagg gattacctat 180
gcaccaatgc atgaaagaga tagaattata attgaatgc tcaacacata tttggaggga 240
tgacacaaca tgtataaaca tgattataat gaaaagggtc tgtttctttc acctaactaa 300
acattttaca gagtgtgggt tacttcagga cactatccat atgtgtgttg accaacaagt 360

ggccatgttt ctaaatacaa ttgggcataa ccttataaat atgttgattg gcacgaattt 420
tggtagatct gggg 434

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C10

<400> 15534

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agaagctgat ggaggaaata aagcaaagtg atgagataat actctttatt gatgaagttc 180
acactctgat aggagcagga gcagcggaag gtgctataga tgctgcta atcttgaagc 240
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agcacattga gaaagacca gcaactgaac ggaggtttca acctgtgaaa gtgccagaac 360
caacagtaga tgaaccatt gaaatcctca gaggactgac ggaacgatat gagat 415

<210> 15535
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C11

<400> 15535

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acagaggcta gctaggtggt cctcgaacga agatgttggc ggagttcagc gggcaggtgg 120
tgagagtgcc ggcggagctg gtggcggctg gcagccggac gccgtcacc aagacgaatg 180
cgtcgcacct ggtggggcgc ttcttgcccg cctccgagcc ggccgtgtcc gtgcagctcg 240
gcgaccacgg acacctcgcc tactaccaca ccaaccaggc gtccttcgt cccaggtcgt 300
tcgcggcgaa ggacgaggtg ttctgcctgt tcgagggggt gctggacaac ctgcgtcgtc 360
tgagccagca ggacgtgctg tcaagcaagg gcgc 394

<210> 15536

<211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-016-Q1-K1-C2
 <400> 15536

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 gtagcagacc aaatcattag acttggtcca aattttgaga attttcgcac ggcattaaga 180
 tgtttgaagt actgggcaaa aaggagaggt gtttactcta atgttactgg ctttcttggt 240
 ggtgtcaact gggctttact ggttgcgct gtctgccagc tctatcccaa tgctgtgcc 300
 agtatgctgg tctcacggtt ttttagagtt tttacacaat ggcagtggcc aaaccgggt 360
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 cctc 424

<210> 15537
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-016-Q1-K1-C5
 <400> 15537

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 gccacatcat ggtctgcaag atcgccgaga agtacctgtc ggagaaggcg gcggcgcg 180
 tgcaggcgct gctgccggag tcggcgggcg gggagctgtc gacgggtgtc ccgtgggcg 240
 accaggtgag ctggcactac cactgggcca gccgctcca ctacgccaac acccccaag 300
 tctgcaactt caagtattct ggggactgcc acaattctcg tggccagcaa gggatgtgc 360
 tcgtcggggc tatcaacaac tacacggacc agctctacag ctacggccag aagacttcgt 420
 ataacctga 429

<210> 15538
 <211> 426
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C6

<400> 15538

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cagacaatcg catcacaggc tgggggaggt ggaagaggca tgggtagtag tggtggtgcc 120

ggtgcagcgc aacgcgggca gatgcagagt ctggcaagac aagggctctct gtataacctt 180

acccttgatg aggtgcagag ccatttggga gaaccctac acagcatgaa ccttgaggag 240

ctgctgaaga gtgtctttcc tgatgacctg gaccctgatg gtggcactac cagccaatat 300

gagcagagtt cgggcctctt gcgacaggga agtatcacia tgccgcctga gctcagcagg 360

agaactgtgg acgaggtgtg gaaggacatc caggatgcac caaacagaaa tgttggggag 420

agtgggt 426

<210> 15539

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C7

<400> 15539

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catagccaga gcattctacc gtccgtcgta gcagcgatga tggctgtgac gtctctgcag 120

ttgcgcccaa cccctcgtct ccttccggcg agaaatagct ccacgggcac tgggccgcg 180

atggccgcct tgagctgcag acacaaccag tccaccaatg tccaaggacg aacagggctc 240

agaagccacg taacgacgcg cagagacgcc ctgtcattcg tgtcatccgc gctgctggca 300

gcgttgttcg tggtgggcgg tgcagcagaa gctagaactt cgaggttgga gaacaaaaag 360

aaagccctgg agaagctccg ggagaaggcg ttgggccgaa aggaggagaa cggagccacc 420

ggtggcaaga 430

<210> 15540

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B2

<400> 15540

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acaggacaaa gaaggagaag tgcgctacat ggacagttaa gaatgcgcat tgacagcacg 120
aaaggatcat cgttatccct atcgcaagca ttacagccga ggagatacca ctgcccagga 180
gaaggagctt gttcagggtca agcgtgaggc cctggtgaag ggtgcgatat atgtgagccc 240
agatgccaag cttacgttag tggttcgcgt cctggtgata aatgccattc accccaagac 300
ccgcaagatc ttgcagctac tgcgattgaa gcatatcttc aacggtgtct tectcaacgc 360
taacaaggca accattaaca tgctgcgca 389

<210> 15541

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A1

<400> 15541

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actagtaggc agccatgaat ttcggtggga atggcaacgc gacgatccgg tgcaagtact 120
gcagggcgag cctgagcgtg atccccggcg agcgcgccat ccagtgcgcg caatgcaact 180
gcgtgacccg catccggcgg gccgaccgca tcccc 215

<210> 15542

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-016-Q1-K1-A10

<400> 15542

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ctagtatgca ctgcgttgtg aggcgtggca atggctacgg ctacggctat ggtgggttacg 120
gcagcagcaa tccccatatg aactaccacc gccaaaacac cgagtccgtg accaccgtcg 180
tcacggagat gaaccgaatg gccgtcgacg acaagccctg ctacggcggc ggcgtgcaga 240

agcaggcctg caaggtggag gcgttccagg agcacgacga agcgtacaag ggcgccgtgg 300
 ccggtgcagca gaagcactcc tncctcaagg aggacaagga ggaggtgctg ggtgctgctg 360
 ccgncgtcag aagctggcac gacgagttat acaaggagga ggaggaggag aagcgcgtcg 420
 tcgacacgga gtacggg 437

<210> 15543
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A11

<400> 15543

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 atcgtgacgg ctcatgaatt acgtcagcta aagctgagac ttacgaaggc agtgacattg 120
 ggcacgaagg tccacgatgc aacctacggc gtcgaaaggc ctacagtgc tagactgtcg 180
 actacttgaa gaagctgctc ctaaatgttt acgcggctgt cgtacctttg gcactattct 240
 tatatgtgga tgacgtcacg ggattcgaaa tgacatatct atattgagat gacagagcct 300
 ttcactatca tcttcacatg gttcgtcata ctgcctataa tatacgggct cgcgcatgcg 360
 atcactactg tcatattgaa cgacttactg accttgaagg ggccgagtac aaactgctgg 420
 aatgaa 426

<210> 15544
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A12

<400> 15544

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 tcaatgctgt tcagccgaga tgctgactct atgcccaggg tgtggacagg aaaggaggac 120
 ataaaagcta taactaaaac cgctcgctca gttccatga agttgctttc tacaatggct 180
 gcaattcggg tggaggagga tgggtgataac attgagaaca ctctttccgt tgctcttggt 240
 gacacctcaa aacctgggac tactgatagg agtatccaat tgaccgatcc acttgccctcc 300

agttcatggg aaagggttgg cgaggagaag actttaatta cccctgtgca gtgcataaat 360
 ttgtggaggc aattcaaggc tgaaactgaa tatacagtga ctcaagcctt agctgctcag 420
 gaagcaaata agaggaac 438

<210> 15545
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A2

<400> 15545

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 tgccggatca acgaggtaata cgtacgttgg atgacaccct acattttctac taccgacaag 120
 atcgccgaca ctatcctcgc attccacgta cgtacggaga tatcttccat acgcatcttc 180
 cgctacatca tatccataga cacggggaccc tcgtacctgc tcggcgagaa gctgcttaca 240
 gaaccagacc gggtttcagcc a 261

<210> 15546
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A3

<400> 15546

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 gtcccgcaact tcgtcaagaa ccagcgccgc ttctccact ggtccaccga cgtcctcaag 120
 cgcgaccctc cgcacaccct gtcgttcaag gcgctcggcc tcaccggcgg cgtcatcacg 180
 gctaaccggg ccaacgtcga gcacatcctc aagaccaact tcgccaacta cccaagggc 240
 gagctgacgg tgtctatgat cgaggacttc ctcgggcacg gcattcttaa ctccgacggg 300
 gagcagtggc tgtggcagcg caaggccgcc agctacgagt tcagcaagcg ctgctcagg 360
 agcttcgtgg tcgacgccgt ccggttcgag gtcgtggagc ggctgctgcc gctgctcgac 420
 cgggcgc 427

<210> 15547
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A4

<400> 15547

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 ccttctactg accaacaggc tgtaaaatca ttccttgggc tagtaaagca tgcaaaagaa 120
 attaagattg atagttggca catcattttg agaatgagag ttccagagga aggtccatgt 180
 gatcctattg ctccattaga tttgcctcat tcattgcatg cggtccatcg tgtctcaagt 240
 agtgattctc tcaatatgga aggttaccac acattccgtg caggattttg gaattacttt 300
 agtatgggga tggatgcaga agtgtcttat gcatttcatt ctgaaaggaa gaataatcca 360
 gagaagttca agagtcacct gacaaatcag ggtacatacg ctaagcttgg acttaaacaa 420
 ggatg 425

<210> 15548
 <211> 367
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-016-Q1-K1-A5

<400> 15548

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 ctagtaggca gccatgaatt tcggtgggaa tggcaacgag acgatccggt gcaagtactg 120
 cagggcgagc ctgagcgtga tccccggcga gcgcgccatc cagtgcgcgc aatgcaactg 180
 cgtgacccgc atccggcggg ccgaccgcat cccggttgcc ggttcgncga atatgccaac 240
 ggcgatccaa cggctctctat gctcgaagac ttccttggtc accggatttt caaatgccac 300
 ggggagcagt ggctgtggca acgcaagggc gccagctacc agttcagcaa gcgctaggtc 360
 acgagct 367

<210> 15549
 <211> 401
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A7

<400> 15549

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tcaccgtcac aagtgccacc aaacggtgca aagatgatgt ggcagatgcc agttcctcct 120
gtgtctacaa catacaggaa agctattgga gagcataatg atacaaacca gtcttgcattg 180
aagttcctta gagaaggcag tgtgcagtct tctccaaatg gatttctatc aagtgatgct 240
gctccaagaa ccagacaagg cacttttgac cttcaacttc cagccgatca ttatatagat 300
gacgatgaca catcagataa caagcccata gatttccttg gtttggcatc agatgcaaaa 360
ccccagaatg atgctgagct tacattagtt agtgcagaac g 401

<210> 15550

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A8

<400> 15550

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ccttctactg accaagaggc tgtaaaatca ttcctcgggc tagtaaagca tgcaaaagaa 120
attaagattg atagttggca catcattttg agaatgcgag ttccagagga aggtccatgt 180
gatcctattg ctccattaga tttgcctcat tcattgcatg cgttccatcg tgtctcaagt 240
agtgattctc tcaatatgga aggttaccac acattccgtg gaggattttg gaattacttt 300
agtatgggga tggatgcaga agtgtcttat gcatttcatt ctgaaaggaa gaagaatcca 360
gagaagttca agaatcagct gacaaatcag ggtacatcgc ctaagcttgg acttaaac 418

<210> 15551

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-016-Q1-K1-A9

<400> 15551

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 cccctcaaag ccaccgccc ctgccccac gccaccacc ccaccgccc cccgccccta 120
 ccgcgcggtg cccgagacc agaggccaga cccctttctt caccttcctt cccatcgcaa 180
 tcgcaagccc ccggtccgg cgctcggcg tggccaggt tgggagatc acttcgtcgc 240
 ggcgaggagg gagggggtcg ccgttagcgc gcggcacttg gatgagaagg gcagcggtgg 300
 aggaggatgc ggaaggcgta cagggactcc atcaagggtgc tcgaagctga catccagcac 360
 gccaacaccc tggcctncga gtttccccgg gactatgatg gtgcgtgcct gcagatg 417

<210> 15552
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B10

<400> 15552

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 ccagctcgac cgctcggctt cccctagcct ctcccccgc gagctcgact cctgctcgcc 120
 tatggagttc ttccagctcc ctgctccggt gactagggct cggcgtccgg ctccctggat 180
 gcttgccctg ctgcgcgcca tctgctcgg ccagcgcagt cccttctctg ctctctctct 240
 ctattccctg ctcatggca gccgactccc tctacctccc atggacgcca gccgcgcccc 300
 tggttcctgc ctctgcttct gctcgggaatt cccatggcca gagctttccc ctagcccgga 360
 tctcaccag tcgcccagct tggctctatc catactccag ctccccctct gtttgttctc 420
 gctactgggt cgggtctg 438

<210> 15553
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B11

<400> 15553

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 ggcagcagcg gactaagagc tccatgcac tgtctcctag gtgtagagat cctgctcatt 120

gtacggtagc tgccaccgtc tcatcgtcaa ccatgtctgc tgcttacacc gtggatcctc 180
 atactcatcc tgctcatcaa cagcagcagt gcagcaataa agtgtcgtcc atggaaatgg 240
 agatccccgg cgaccttata atccggatcg gcgagtcctt tttccctcta caciaagcgg 300
 tgatggtgcc caagtgcggc tacatccgcc gtgccgtcga ggccgctgcg gcagcgggtgg 360
 cggccaagcc cagcagcaag ggccggcgccg acgccgaccc cgaccccgat ccggcggggca 420
 ccgtctagc 429

<210> 15554
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B12

<400> 15554
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 ctagaagaac ttggaattgg aaggccatct acttatgcat ctataatgaa agtggtactg 180
 gatcggaagt acgtgacagc aaaaagtcga gttctacacc ctgagttccg tggtcgaatg 240
 gtctcggcat tccttttgca ccatttctct gaggtttctg attacaactt tacagctaac 300
 atggagacag agctagataa tgtctctgct gggtcactg aatggaaggg tcttctgaaa 360
 gactactggg aacgattcag caaatattgt gcagatgtga gtaaactgga tggcagaaaag 420
 gtagagagaa tgcttga 437

<210> 15555
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H9

<400> 15555
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 ctcgctttgg cataattcca caggaaccag ttctctttga aggaacaatt cgaagcatca 180

ttgatccaat tgggcagttt tcatattctt aattattggt tgtctttgat cgttttcttc 240
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 tttatttttg ttattccatt tatttttttt ttttttttatt ttattttttt attatttttt 360
 tatttttggt ttttttattt ttttattttt cttttttttt ttttatattt ttttttttta 420
 ttttttcttt tatttttttt tt 442

<210> 15556
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-G10

<400> 15556

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 tgatcagaca caactggagc acgacaacaa gaatgcttgg agcttctgcc tgatgggcta 180
 tagtctacgt tcaagtggaa gcagcactct gcgtgtcccc tggtttctct ggagctgcct 240
 cgcgatgat cctgagggac tcggcgaagt cgtccaggag ctgacggcca tccggaaact 300
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 tcaaggcatg t 371

<210> 15557
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-015-Q1-K1-G12

<400> 15557

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 gcgcgtggg ccgagtactg gtccaacgta ctctccccgc cgaacctcgc ctcccgcccc 180
 gacgtcgtcg accacttgaa gcgcaagttc taccagcgt acatcgacca tgatctggtc 240

gttgagccaa ggtcattcac cagttccact caggccagca ggccagatgt aaggtcttcg 300
tcttcgtcat ccaccgagaa cgtcaggag cgtaattcag gatctactgc aaggtcagcg 360
cctncaccac cggcaccaac acatacagac agtgccgtca accctttacg gttcgacgca 420
cgactatac atttct 436

<210> 15558
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-G4

<400> 15558

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gcagtgcgcc gccaaaggag tgggtggtgga cacggcgtgc atgctgctgg ccgagctggt 180
ccggcgctac gacgacttcg aggtggaggg caccttcttc accaagctcg tcaagcgcca 240
ggcgtcgccg agcgtggcgc aggcagccgc cgcgctcgga gcgcatcagt gagtgcgctg 300
tataggatca tcggtggcgt gcgacgtcgt cggcgccggc caagcaataa agtgaaatga 360
gttcacatgc tcgtctgtgt tcgacttcga tc 392

<210> 15559
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-G5

<400> 15559

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gggtgctcgg tctgcagcta tcttaggtta accagtcgtg tgtggtctat cggtttcgat 180
atagtactac tgctctgtta taatcagcgg ggaggaggaa gatgacggtg acgccacgga 240
tcacggtgag cgacggggcg ctgacggtgc gcggccgtac ggtgctcacc ggcgtgccgg 300
acaacgtgtc ggcggcgcac gcggccgggg cggggctcgt cgacggggcc ttcgtcggcg 360

cccacgccgg cgaggccaag agccaccacg tct

393

<210> 15560
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-G6

<400> 15560

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cattgtgatg gagggctctca cgggctcact ctaagaccgc cttaacaaga gcagcacgcg 120
ggggttcctc gcctacacca gcgtcggggc tgactgcgcg gctgtcctag cctgctacgt 180
gctctctgtc gcagactcgc cagcatctgc ggcacgcaac gatggcgcgc gcctactgct 240
gtcctcgcgc tcaccgcgcg tatgaccga ccttacgttc aacaggcggg tgatggtcgt 300
caacgtcatc aggttcctct ggatcacgtt tggcac 336

<210> 15561
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-G7

<400> 15561

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tactagtac acttgatcgc aggacaaca caagataatg agctaccatc tacccttcgc 120
atctgtgtgc ctgcatctgc tgctgtcagc aacgctctct tcagtcatga ctcatcctcg 180
ttttatctgt caatggatta tgtatattaa catgcataac tagtacacgc ctacccttgg 240
gatcaagaat ggcgaataat accaacggag gcacctcctt gtcgtggtc 289

<210> 15562
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H1

<400> 15562

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 agcagcgatc gcagcaccgc ggcgagataa tgagcagcag cctgtcctcc ggcattctctg 120
 cctcgccatc tgcagcggcc agcaccgctc ggcgcgcgcca tgacgcagcg ccgcagcagc 180
 tgacgagggg gaaggcggcg gcgcggccac agctgctgca cgccggccgc cggcgttcga 240
 gtgtcgggag gaggccgggc ggcggcgcgg tgggtggtgag ggccgggcct gggccactgt 300
 cggagatcga gccggacctg gaggaggacg ccatcgacgt gtaccgcacc aacggcatca 360
 gcccgagga cttcgagtac gggaagtatg acggacacca cacctatttc g 411

<210> 15563
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H10

<400> 15563

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 tatttcataa ctctttatta tacactcata ttt 153

<210> 15564
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H12

<400> 15564

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 actgcaagat ccacgggtac gacgtcccgg cggggtcgat ggtcctcgtc aatgcgtacg 120
 ccattcaccg ggaccggcg atgtgggagg acccgagga gttcaggccg gagcggttcg 180
 agctcggcag ggcagagggg aagttcatga tgccgtttgg gatggggagg cgcagggtgcc 240
 ccggcgagaa cctcgcgatg cgaaccatgg ggctggctct gggggcgctg ctccaatgct 300
 tcgattggac cagggttggg gatagagaaa ttgacatggc aacagccact ggcaccatca 360
 tgtetaaggc tgtcccactc gaagctcagt gcaagccgag agcgaacatg 410

<210> 15565
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H2

<400> 15565

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tggccgagac ctccacgtat cagattctgg tgcgtctcct cgacgggct accagatgtc 120
tccgcttctc cagccccacc gtttcggcg ccgtgctcct cgacgccgtc gcgtcgatct 180
ctcgcgttcc cgccgacgt ctccggctcg tcaccggcgg catcgacgta tcgcccctctt 240
ccgtctctgc ctcagcagct gatggccagt tcccctatgc gtcagcgctg ctccgccttc 300
gaggatgcaa gggtaggattc 320

<210> 15566
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-015-Q1-K1-H3

<400> 15566

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cgggtcccgcg cttcgctggg caagccggtg aaggggcttg gcctgagcat gggccgcgag 180
cgcgcccagc ggagcattgt gtgccaggcg gcgagcagca tctccgccga ccgcgtcccc 240
gacatggaga agcggaagct gatgaacctn ctncctctcg gcgccatctc gttgcccacc 300
gtcggcatgg tcgtccacta cggcgcttc ttcctccctg ccggctccgg gaacgccggc 360
ggcgggacct acgcgaagga caagctgggc aacgacatca cngtggaggc gtggctcaac 420
acg 423

<210> 15567
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H5

<400> 15567

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ctctagcgca cggcgggccg gagaagagga ggaggggggg gacgatctca ttcacggaac 120
cggcgtgcct gtgtcgtctg ctgttttcgt ttttttcttt actctttttt tttcctcctt 180
tgcttggtca attcaatcag tatattaaga tttctgattt gggggcggtt cgccatggga 240
ttcggaatgg ggaataataa caacggggcg agctcctcgt cgtcgcgggt ggaccccgcg 300
gcgccgtgc tgccgcgcca cggcagcagc gggggccgcg aggggtggtgg cctgtcgtcg 360
cagcccaaga cgttcgcca cgtcttcctc gcggt 395

<210> 15568

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-F9

<400> 15568

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agcacagggg cgctgctttg gcacccgtcg ccgcaggtgc actccggtgg cgtcctcttc 120
cgccagagcc ggcgcacgt acgccagcgc aacttgccctc tattatcgct agctgacgcg 180
gcgcttgagc tcgagcgccg ccgcggggcag cgtctccgct gcgctgccgg cgacggggac 240
ggcgggcccc gggagggtca gaaggagtct ccgagcgga tcggcgagc actcgaggat 300
ccgtctccag gacctcctgt ggaaaacggt gccttcagaa gcccctcaca ggaagaacag 360
agtgtctgtg ataattntct ctatccaagc aaagacttac ttccagatga taaagagatg 420
agtatatattg atcatct 437

<210> 15569

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-E12

<400> 15569

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tgagtgagtg atcgagctag ctgagctccg atcctcgcta gctaggatac cgccatacca 120
caagtcttct tcacaagttt aggagtgaca gcaacaacag atcgatggcc tctgccaccg 180
tgctcaagtc ctccttcctt tccaagaagt ccgaatgggg cgccaccagg caggccgtcg 240
cgcccatgcc ggccaccgtc ttcattggtc tccgcgcctt cggctacgcc gatgagctcg 300
tgaagacccg caaaac 316

<210> 15570

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-E2

<400> 15570

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tgggggcggtg tacaaaggcg agctgccgaa cggaggagtg cctgtgcctg tggcagtcaa 120
aatgctggag gactcaacgg gggaagagga gttcatcagc gaagtcgcaa ccattggaac 180
catccaccac gccaacgtcg tccggcttct agggttctgc tccgagaggt caaggcgtgc 240
tctggtatac gagttcatgc ctaacgcgtc gctggagaag tatatacgct gtcctccca 300
agaacagtcg ttaataacaa cggccagtaa gatgctggaa atagcgacag ggatcgcccg 360
aggaatcgag tacctgcacc agggctgcga ccagcgcac ctcatttcg acatcaagcc 420
tttcaacatt 430

<210> 15571

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-E3

<400> 15571

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atggccgcca ccgccctgag catgagcatg ctacgcgcgc cgtcggcctg attctagtcc 120

ccactcaggc tcatggtctc ggatgccaaag ccgctggcag gcccaatgcg ggcacagctg 180
 ctgtgcgcgc aagccaccta caacgtgaag ctgatcacgc cacaggggga agtggagctg 240
 caggtgcccc actacgtgta catgctggac ttgcgcgagg aggaaggcat cgacctgccc 300
 ttctctgccc gtgcggagtc ctgctcctcc tgcgccggca aggtc 345

<210> 15572
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-E4

<400> 15572

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 gccgtgcgcg cgctccccag gaatgggcag catcgggcgt cgtcgtcgat gatctcctcc 120
 tctactctt cctccttctt cgtcggcaag acgtgctga ggcaggccga ggcagcccgg 180
 ccgtcgttcg ccgtgcgcgc cgcgccggat tccgacaggc cgatctggtt ccccggcagc 240
 acctctccgc cgtggctcga ctgcagcctt gccggcgact tcagctttga tccctggggc 300
 ctcggatctg acccgagag cctgcggtgg aacgtgcagg cagagctggt gcactgccgg 360
 agggcgatgc tc 372

<210> 15573
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-E5

<400> 15573

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 aaggacgcca cagtcctaag catgaacatc ctacgagcgc caacatactg attctaaacc 120
 gcactcatgc tcatgatctc ggatagacaa gccggtggca gaagaaatac ggcgccagct 180
 gcagcatgcg cagccatat acaacgtgaa gcagaacacg cac 223

<210> 15574
 <211> 425
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-F1

<400> 15574

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catggcgctg gagggtgg tgctgggcta cgcggcgggc gcggaggcgg tcatgctgct 120
gctgctgacg ctgccggggc tcgacggcct gcgccggggc atgggtctccg tggcgaggag 180
cgcgctcaag cccatgatgt ccgtggtgcc cttctgcctc ttctgctca tggacatcta 240
ctggaagtac gagacgcggc ccacctgcga cgacgagcac gcctgcaccc cctccgagca 300
cctccgccac cacaagtccg tcatgaagtc gcagcgcaac gcgtcctca tcgccgccgc 360
gtcctcctc tactggatcc tcttctccgt caccagctc gtcgtcaggc tcgaccagat 420
gcagc 425

<210> 15575

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-F10

<400> 15575

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acaacaggca gttctgatc aaatcaaacc ccggcgaagt tgttaaact gaccaattca 180
aggcaataaa cgacgagggg atgccgattt accagaggcc cttcatgaag gggaagctct 240
acattcattt cacggtggag tccccgact cgctggcacc agagcagtgc aaggctctcg 300
agtcggtact tccgcaaag cttcgtcca agctgacaga catggagatc gatgaatgcg 360
aggagacaac catgcatgat gtgaacaaca tcgaggaaga gatgcgcatg aagcangctc 420
atgct 425

<210> 15576

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-015-Q1-K1-F2

<400> 15576

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tacagggtgca gtgctcgaga acgtactcca gaactgaaca agagaagcgt cgctgctttc 120
gtttggcata gcaactgatac aatgtacttg aaaaaatctt cggttgtgga tctactaagg 180
gagccacata catttggcag cacagctatt gcctgttctg cgagaataaa tattgatctc 240
aacgatgata gtctctacat gcataaaaag gtgcaccaac atataaagtc gcatcagctt 300
ggactagtaa caggcactac taaatgcgct gaagaataca agataaatga tgtatcaaca 360
gatatgctct gatgtatctt cagcatacct gacatcaaaa tttcaagtgt gtcagatgaa 420
gaata 425

<210> 15577
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-F4

<400> 15577

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gaggaagcgg ctccgccacg ctgatgagca cgacgaggac agcgactacg aggaggatga 120
gcaaattgaa gagatgggtcc ggcggttcag gaaggcgatc atgatgagga gattcggcca 180
cggccacggc catggacgct cgtcccgctt cttacaccac atcgtgcacc gccacgccga 240
ggaggccaag aagcaggcag atgttgaaga agaggagagc ggtgtcctgg cctggatcaa 300
gggcctaattg aaccggttct agagctgcct cattcgagcg atccgtgcac tcacagtcac 360
agccatggct gcttgccttg ttactatgag aacgta 396

<210> 15578
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-F5

<400> 15578

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ctctgtacct agctctagct agccttctctg tagcgcgga gagatggctg cccctgcctc 120
caccacggcg gcggcgggcg cagcgctgct gctgctgctc ctctgtcgc tgcgcggcg 180
ggcgacatg tcgatcgtgt cctacgggga gcgcagcgac gaggaggcg ggcgatgta 240
cgcgagtg atggcgcg acggccggac ctacaacgcc gtcagcgagg aggagcgcg 300
gtaccagtg ttccgggaca acctccgcta catcgacgcg cacaacgcc cgtcgacgc 360
ggcgctccac tcct 374

<210> 15579

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-F7

<400> 15579

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ccgtggggcc aataaaactg cccaaaggca ctgcaattgt gataccatt ccgatcatgc 120
atcgagacaa gcaggcctgg ggcgacgacg cagacgagtt cagtccgatg agatttgca 180
atgggatcac gggagcagcg aaagttctc acggcctgct ggcgttctcg atggggccaa 240
ggtcttgcac cggccagaac ttgtcgatgc tggaagccaa gtcgacgctg gccctgatgc 300
tccgcaagtt ctcttcgct ctctccctg actacgtgca cgcgcccgtg gatctcttca 360
ctctcaaacc taagtttggc cttncgtca ttctgaggcc actggataat gttt 414

<210> 15580

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-F8

<400> 15580

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ccttgcaggc cactttgcag cagaatgcac attacaaact gtttctgga actgcaaaga 120

gtctgggcac attgccagtg agtgcaagaa cgaggcccta tgccacgcct gcaacaagac 180
 aggtcacttg gcactgact gccctacttc aggtgctaac gtcaagctat gcaacaaatg 240
 ctttaaatca ggccacatcg ccgttgactg caccaacgaa cgggcctgca acaactgccg 300
 tcagccaggg cacatagctc gggagtgcga gaacgatccg gtctgcaacc tgtgcaatgt 360
 ctccggccac gtcgcacgcg tctgcccata gacgactctg gtttcagtga tac 413

<210> 15581
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-C6

<400> 15581

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 taaggttatg aacgatcgtg acaagtacct aaaacaaaca gcctaggtag caggtagata 120
 tcatgctcgg tccggcacgt acggtccagc agtcccggc gttcagtacg ccgccgcggc 180
 cgacacgtcc tcgccgatct cgaacatccc agcggcgctc agggacgcga acggtgccat 240
 gtctcggat actgaagagt acggcgccgc gaagccagcg ggggtggagg acgtttcctc 300
 cttagcctgc gccgtcacga agctgaacgc cgggagcggc tgcggaag 348

<210> 15582
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-C7

<400> 15582

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 gattcgatta tctcggatt ttccccgttt tttgtgggt ttcttatctt cttcgatcgg 180
 agtgctaggg tttgggcgcg ctccgtgggc ggcgtactcc agggtcacg ttagttggac 240
 gggctagggg gttttctcac cgggggaagg gaagcgaatc caaacgatgg agaagaagaa 300
 ggtggcgatc ccgctggtgt gccacggtca ctccggccg gtggtggatc tcttctacag 360

ccccgtcaca cccgatgggt acttcctcat cagcgccagc aaggacacaa atccaatgct 420
tcgtaatggg gagact 436

<210> 15583
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D1

<400> 15583

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aatcccagaa atgccaatcc ttctgctcct tcggacgata gttacaatga tgcacatttc 180
aggacgattg cttctaactg gtcctcatac attggcatgg tatctgaaac gctgaagaat 240
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gatttctata ctcaagtggg cgggaaagat gctaagcaac ttgcagtact ccttgacgag 360
gatcctgccc tcatggaacg caggctgcaa tgctttaaga ggcttgagct gtacaagtct 420
gctcgggacg ag 432

<210> 15584
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D10

<400> 15584

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cctgacctgg aggagacgag caccgccgcg caggccaccg tcgtcctcgg cgtggccccg 180
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ggctgcagct gcggtggcaa ctgcaagtgc gaccctgca actgctgata acatcgatcg 300
acgaccatgg atatgattat tatctatcta gcttggtgtg gtggttgaac aataataagc 360
gaagccgagc tggctgccat acataggtat tgtgtggtgt gtgtg 405

<210> 15585
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D11

<400> 15585

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 cctgacctgg aagagacgag caccgccgcg caggccaccg tcgtcctcgg cgtggccccg 180
 gagaagaagg ccgcgcccga gttcgtcgag gccgcggcgg agtcggcgga ggccgcccac 240
 ggctgcagct gcggtggcaa ctgcaagtgc gaccctgca actgctgac acatcgatcg 300
 acgaccatgg atatgattat tatctatcta gcttgtggtg gtggttgaac aataataagc 360
 gaggccgagc tggctgccat acatatgtat tgggtggtgt gagt 404

<210> 15586
 <211> 408
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-015-Q1-K1-D3

<400> 15586

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 tggcgatctc ctccacggcg atggccggta ccccatcaa ggtgggctcc ttcggcgagg 120
 gccgcatac catgcgcaag accgtgggca agcccaagggt ggcgggctcc ggcagcccct 180
 ggtacggccc cgaccgcgtc aagtacctcg gccccttctc cggcgagccc ccgagctacc 240
 tcaccggcga gttccccggc gactacggct gggacaccgc cgggctgtcc gccgaccccg 300
 agaccttcgc caagaaccgc gagctggagg tgatccactc ccgctgggccc atgctncgcg 360
 cgctcggctg cgtcttcccc gagctgctct cccgcaaccg cgtcaagt 408

<210> 15587
 <211> 438
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-D5

<400> 15587

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atttgactgt ggagttcttc cgcaagctcc cacaggaagt tgataagact ggaactggaa 120
atcccagaaa tgccaatcct cctgctcctt cggacgatcg ttacaatgat gcacatttca 180
ggaggattgc ttctaactgt tctcatatac ttggcatggg atctgaaacg ctgaagaata 240
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atttctatac tcaagtgggc gggaaagatg ctaagcaact tgcagtactc cttgacgagg 360
atcctgccct catggaacgc angctgcaat gctttaagag gcttgagctg tacaagtctg 420
ctcgggacga gattgatg 438

<210> 15588

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D6

<400> 15588

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tctgcaaatac ttctgctagg ccatgaccaa gttgttaaga tcgcagactt tgggtgtggcg 180
cgacatggaa gtcagcaggg gcagatgact gctgaaactg gaacctaccg atggatggca 240
ccagagataa ttaatcataa gccgatgac cacaaagcgg atgtattcag ctttgccatt 300
gttctttggg agctggcaac ttcaatgggc ccatatgaca acatgacacc cttgcaagct 360
gcattaggag taagacaggg attgcgcttg gacattccgg gcagcgtgca cccaagattg 420
accaagctga ttcgaca 437

<210> 15589

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D7

<400> 15589

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cagaaactaa agcaagtgtt ggatttaaag ctggtgttaa ggattataaa ttgacttact 120
acaccccgga gtacgaaacc aaggatactg atatcttggc agcattccga gtaactcctc 180
agctcgggggt tccgcctgaa gaagcaggag ctgcagtagc tgcggaatct tctactggta 240
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atcacatcga gcccgttcct ggggacccag atcaatatat ctgttatgta gcttatccat 360
tagacctatt tgaagagggt tctgttacta acatgtttac ttccattgtg ggtaacgtat 420
ttg 423
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<210> 15590

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D8

<400> 15590

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tgggagcgtg tacaaaggcg agctgccgaa cggaggagtg cctgtgcctg tggcagtcaa 120
aatgctggag gactcaacgg gggaagagga gttcatcagc gaagtcgcaa ccattggaac 180
catccaccac gccaacgtcg tccggcttct agggttctgc tccgagaggt caaggcgtgc 240
tctggtatac gagttcatgc ctaacgcgtc gctggagaag tatatacgct gtcctccca 300
agaacagtcg ttaataacaa cggccagtaa gatgctggaa atagcgacag ggatcgcccc 360
aggaatcgag tacctgcacc aaggctgcga ccagcgc 397
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<210> 15591

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D9

<400> 15591

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 cctgacctgg aggagacgag caccgCCgCg caggccaccg tcgtcctcgg cgtggccccg 180
 gagaagaagg ccgcgccccga gttcgtcgag gccgcggcgg agtccggcga ggccgccccac 240
 ggctgcagct gcggtggcaa ctgcaagtgc gaccctgca actgctgac acatcgatcg 300
 acgaccatgg atatgattat tatctatcta gcttgtggtg gtggttgaac aataataagc 360
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<210> 15592
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-E1
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 gctatgattc aaattatttc tgcagaatct tgtgtgccga aagaatctgg taattgataa 180
 gagcatccac actgcatatg tccgagcaat cagatctgca cagcattaca tttatattga 240
 gaaccagtac ttccctggct cttcatatgc ttggccatcc tatgtgaatt cacgtgctga 300
 taatctgata ccattagaac tggccctcat aattgcaagt gaattcctat attgatggcc 360
 aaaatttggc agaacaattt aaccaattgt gaggtcttct gagttcttct tctctgcaaa 420
 cattccatgt t 431

<210> 15593
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-E10
 <400> 15593

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atgtggaact gatccctggc atccccgacg acgtggccgt ggactgcctg gcgcgcgtcc 180
cccacgcctc ccaccgcgg atgcccggg tctgccgcgg ctggcgagc gccgcgcgg 240
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gcacccggc gtacggcgtg gcggtgtaca acgtgacgac gggcgagtgg cggcgggagc 420
gcggcgcgcc ccccg 436

<210> 15594
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-015-Q1-K1-C5
<400> 15594

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agggcgcct cctcttcacc gccgacccg cccgtcccg ctgccgtcc ctccgcctcc 180
gccccgcgg cgcgcggctg gccgctcct cgctcgggc caccaaggct gtggtggcag 240
cgttggtga tcctctcaag gtcctgatc caggagctcc ggcgtccggc aaggcacac 300
agtgcgagct catcaagacc aaatatcaac tggcgacat ctccgctgga gatttgttg 360
gggcggaaat cgctgctggc tctgagaatg ggaagcgggc caaggaattc atgga 415

<210> 15595
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-015-Q1-K1-B10
<400> 15595

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gatcgcaagc tctggctcaa tcaatcggg tgcaagctta ccaatgtcat ctactgtcc 120
gttgtagagc catcttacta atcgagatcg attttctagg acacctgcac atggtaaata 180

cctcataggc tgtacatagc tggaccacct gcttttaccg tcgctccagc gattcatgcg 240
atgccgacag cagatgcaca tgctaaacgg caggcatgta catgtatgac taagaaatcc 300
ggctgtgcaa tcagcggatc aacaggggaag atgccgtgca ctacgaccgt gactttgaca 360
gtgatcccat acttgtatgt ggcaactgcca aagatttgga tagatgctac gt 412

<210> 15596
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-B4

<400> 15596

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atgaatgcct attatgttct gccacactca ctttctgtt ccattagctg ctagtgccaa 120
ctgccagcta aatcctaagc gtgtgttttg aaaatattga acaatagtgt aaatgcataa 180
agcttgaacc tttttttact gttgatggta ctgttacatg attctgcatt ggctcaacca 240
tataggcatg aacaagtatg agatgaagct gggtagaatc gtagtaaaaa attaactgat 300
tagtgtttta tgcctgaggt gttccagtaa taagattgat agtatagaag tagggaactg 360
tcactgtctt gaatcaaaga aactgcgtga aagataatgg tttctctttg c 411

<210> 15597
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-B5

<400> 15597

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aacgtggaca acttcttcaa cgagaacgag cagctggcgt tcgggcccggg gctgggtggg 180
ccagggatct actactcgga cgacaagatg ctgcagtgcc ggggtgttcgc ctacgccgac 240
acgcagcgtc acaggctggg accaaactac ctgatgctgc ccgtcaacgc gccgcgctgc 300
gcgcaccaca acaaccacta cgacggcgcc atgaacttca tgcaccgcca cgaggagggtg 360

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386

<210> 15598
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-B6

<400> 15598

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tgggaaccaa cgaacacgac aatggggact gcatcagtga catcatgcat ggctacgaac 180
tcgacctgag tgccgctgtc tagtatgact gtgacgcgtg cacgcactat aagttcgaca 240
gcctgtagaa gatggccaac cgcactgtcc agatgtactt gacggtcgac acgctcagag 300
ggctgtacga cctgaggacg acagacctgg atgcgctgt 339

<210> 15599
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-B7

<400> 15599

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catatcactc cagggagcac caagccggtc cagctcatct ttcacccac cgacctccgt 120
gattagtcac tcagcagcgc cgtaacggcc gtatatctgg ccacaagatg gtacagcatg 180
ctgatcttag gtatgaatcc gactcgcgtc ggaggcacia tccagctcat agaccaatta 240
atgcgcacat t 251

<210> 15600
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-015-Q1-K1-B8

<400> 15600

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cccagatgg cgaacgcgag atcgggtgtc gctgtgaacg atgagtgcac gctgaagttt 180
ggcgagctgc agtcgaagag gctgcaccgc ttcataactt tcaagatgga cgacaagttc 240
aaggagatag ttgtggacca ggtcggggat cgcgctacca gctacgatga cttcacaac 300
agcctccctg agaatgactg ccgatacgcg atctatgatt tcgactntgt tactgcagag 360
gatgtccaga agagcaggat cttctatatc ctatgggtccc cat 403

<210> 15601

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-B9

<400> 15601

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actcgcaggc ggngggcgag gcggtacgga ggcgggcgctg ggggtgtctt ctgccgctcc 120
tcgttgccgc cgccttctc gccgagatcg cgcttctcgg ccgctcgcac atggcgaaga 180
acgccgaggc ggtcgagagc tggaccacct ccttttaccg ccgctccgcc gatttgggcg 240
atgccgttgg cggngggcgca gcctcgaggg caggcggcga cagcgaggac gaagagatcc 300
ggctgtgcga gcagcggctc gagagggagg atgccgtgcc ctacga 346

<210> 15602

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-C11

<400> 15602

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ctagatccta ggggtcgtcc aactccgcac caacctccgt catcagctca agctgcaaga 120
gcactaccaa caacacgtga cccgaactag acaagctccg cccctagcc caccacaccg 180

ctcagcatct cccgctgcaa caagcccgca cctgagcttc ttcattccct tcctcattcc 240
 cgtgacgccg ccgacaggct cacctgcact gccacctgaa gacgccaaac gtgatgcacc 300
 tgatgatatg gagacacaac tgaagctatg agaggccacc ataccgcctg cgttgctcgt 360
 tgagctctgc ctgcaatacg cccagcacgg actgatctat actgtaccta tacacctatt 420
 tactacgaca tgcaca 436

<210> 15603
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-C2

<400> 15603
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 tcctgacagg aggatctacc tgccggatgg gctgttgga cggtcggagg tgccggagta 120
 cctcaccgga gaggtccctg gagactatgg ctacgacct tttggcctgg gcaagaagcc 180
 agaggacttc gccaaagtacc aggcctacga gctgatccat gccagatggg ccatgctcgg 240
 tgccgctggc gctgtcatcc cagaggcctg caacaagttc ggcgctaact gtggccctga 300
 ggctgtctgg ttcaagaccg gcgcgctgct cctggacggc aacaccctca actacttcgg 360
 caacagcatc cccatcaacc tgggtggtggc cgtgatcgcg gaggtcatcc tcgtc 415

<210> 15604
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-015-Q1-K1-C4

<400> 15604
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 aaaacaaaca gcctagggta gcaggtacat catcatgctc gggtcgggca cgtccgtcca 120
 gcagctcccg gcgttcagc acgcccgcgc ggccgacgcy tcctcgccga tctcgaacat 180
 cccagcggcg tccagggacg cgaacggtgc catgtcctcg gatactgagg agtacggcgc 240

cgcggaagcca gcgggggtgg aggacgtttc ctcttagcc tgcgccgcca cgaagctgaa 300
 gccggggagc ggcggcgag gcgcgaagag agacgccagc gccgncgnc gatcggcgaa 360
 tatcg 365

<210> 15605
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-A9
 <400> 15605

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 agtgggacga tccggacgtg tgcggccctt acatggttcg gttctgtcct cagcacctt 180
 tcgtcaacac caagagcaat atcggggccgt gctcgaggat ccacgatccg aagctcaagg 240
 aaagctttga gaagtctcct aggcacgata cttatatgca aaggtttgag gcagagcttg 300
 cacaacaatg tgagaaattg gtaatggact tagatagaaa gataaggcgt ggtcgagaaa 360
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<210> 15606
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-H4
 <400> 15606

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 ccgcgggcgg ccaccccgcc cgtctctgtc cgaccccgca ccagcgactc gccgagtga 180
 ggcacaagag gggggctcca tccatgaggc agccatgctg gtgctcatca acaggtattt 240
 caggagcagg aacagcagcc cggccggagg aggcggcgaa gagatggcgc cggcggcgac 300
 ttccagcgac cacctctgtt tgccgggctg cgtgcccggt gcgcgcaagc gggcctnctn 360
 ctccgccgcc gcccgggcca cggccaccac ggcgcgggcg tcgcggcaca atttcgtca 419

<210> 15607
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-H5

<400> 15607

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 cgccctccat ccagctcctc tacggcctcc gcaccgcgct cgacctcatc ttcgaggaag 180
 ggctggacaa cgctcgtgagg aggcacaacc gccttgggac agccaccagg ctcgccgtcg 240
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 ccgtcgtcgt gccgccaac atcgacagcg ccgaggtcgt caggcacgcg tggaagcgat 360
 acaacctcag cctcggcctc ggctcaaca aggtcgccgg gaaggtcttc 410

<210> 15608
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-H7

<400> 15608

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 accgaattcc ggagatgaag aagcgacttg gtttgactta tacaatgtta tgtatcgaga 180
 aaagacactt tttttaggtc aagagattcg ctgcgagatc acaaatacata tttcacgtct 240
 gatgggatat ctcagtttat aaaattggaa tagcgatatt tttttgttta taaactcccc 300
 tggcgggttg ctaatctcag gaatggcgat ttttgatacg atgcaaacgg tgacacctga 360
 tatatatata atatg 375

<210> 15609
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-H9

<400> 15609

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tgacaccatc ggactctgtt gccattatag cggccaatgc tgttcaatca attccttact 360
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<210> 15610

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-A1

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ctgggcttgt tcaccagcca ctaagcctac ttgccaggac agaatgccta ctgcttgggg 180
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tgagtttagtg ctctgttcga ctaggcattg tgtcttgctt cgtcgagggt ggggagctgg 300
atacaccacc tnccttatgt aagaatgttt ggatgaagat atttatacat gtagtcatac 360
atagggatag catgccgtgc gtgcatacaa ggtccaaatt ttgtatgttt gaattatgac 420

<210> 15611

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-A11

<400> 15611

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tcttctgaca ccattgacaa cgtcaaggcc aagatccagg acaaggaggg catccccccg 180
gaccagcagc ggctcatctt tgctggcaag cagctcgagg acggggcgac acttgccgac 240
tacaacatcc agaaggagag caccctccac cttgttctcc gcctcagggg aggcattgcag 300
atcttcgtca agaccctcac tggaaagact atcaccctcg aggtggagtc ttctgacacc 360
atcgacaacg tc 372

<210> 15612

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-A2

<400> 15612

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gaggtcctcc tccacccgct ggtgctggtg cccgggctga cgtgcagcga gctggacgcy 180
cggctcacgg acgcataccg ctcttccgcy ccgcggtgcy gcgccatgaa ggggaagggc 240
tggttcggcc tctgggcaaa ctgctccgac ctgcccgcgc accactacgt gcggtgcttc 300
atggagcaga tggccctcgt ctacgacccc gtcgcgaacg actaccgga ccttgccgcy 360
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<210> 15613

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-A5

<400> 15613

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cggttcaaaa tctatcgccc ttgtatagcy tgaaagcagt caaataacag aaatggctcy 120

ctgggcttgt tcaccagcca ctaagcctac ttgccaggac agaatgccta ctgcttgggg 180
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 tgagtttagt ctctgttcga ctaggcatgt tgtcttgcct cgtcgagggt ggggagctgg 300
 atacaccacc tntctatgt aagaatgttt ggatgaagat atttatacat gtagtcatac 360
 atagggatag catgccgtgc gtgcatacaa ggtccaaatt ttgtatgttt gaattatgac 420

<210> 15614
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-A6

<400> 15614

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 gatcggtaac acgccgctgg tgtacctcaa caaggtgacc gatgggtgcg tcggccgagt 180
 catcgccaag ctcgagtcca tggagccctg ctccagcgtc aatgatagga ttggctacag 240
 catgatcacg gacgcagagg agaaagggct gattactcca ggcgtgagtg ttctgattga 300
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<210> 15615
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-015-Q1-K1-A7

<400> 15615

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 cccgatctgc gccgatcggg gcgaccgctc tctggggacg ccgatcgaag gtcgggcggc 180
 gatgcttccg atatacggaa gcagtttcta gttttcttca gttggtcgcc acagtttcca 240
 gcgctttcag ccagttgtct aataacttgt tggtgtgtgt gtacttaaga ttgacacgct 300

tcgtgttgta aagcattgcc atgtttgggg catgacttgt tttgttgaa atcaattgac 360
 ttccaagggg tactactaaat ccttgatgca acataatagg atcaccgtac tgtcttcttc 420
 agagaccttn caacttgggt ct 442

<210> 15616
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-H2
 <400> 15616

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 tacgaaacca aggatactga tatcttggca gcattccgag taactcctca gctcgggggt 180
 ccgcctgaag aagcaagagc tgcagtagct gcggaatctt ctactggtac atggacaact 240
 gtttggactg atggacttac cagtcttgat cgttacaaag gacgatgcta tcacatcgag 300
 cccgttcttg gggaccaga tcaatatatc tgntatgtag cttatccatt agacctattt 360
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<210> 15617
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-F2
 <400> 15617

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 cctagataca agcatgaatg agtggctaca actcgtacta acctgatgga aggagtggat 180
 acaactctga taccatcaac ggtggtagca gccctagct aggcggagga tcggagcctg 240
 tatcagaaat cgaaataata taagactgtc ttcaacggat cacactgtcg ctccccacg 300
 ctaaatttgg gggctacagt gcacacgcta gccgatcaac ggctcacgct accaggcgct 360

ctacgcggat gtgcccccta accaacttct ctctcccc

399

<210> 15618
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-F5

<400> 15618

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tctccttgtg cctgatggcc cttgtcgtag ctgctatggg ctgtgtcatg tacaccacct 120
cggcacaagc aggaaggagt ggctacaact cgtacgaacc tgatggaagg ggtggatata 180
actctgttcc catcaacggc ggtggcagcc cctagctagg cgggtggatcg gagcctgtat 240
cagaaatcga aataatataa gactgtcttc aacggatcac actgccgctc ccccacgcta 300
aatttggggg ctacagtga cacgctagcc gatcaacggc tcacgctacc aggcgctcta 360
cgcggatgtg cccctagcc agcttctctc tccccctcgt tctgtggtgc ctctctcacc 420
ctct 424

<210> 15619
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-F6

<400> 15619

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tctt 64

<210> 15620
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-F7

<400> 15620

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gatctatctt gtacctgatg gcccttgtca cagctgctat gatctgtgtc atgtacacaa 120
 cctcgataca tgcataaag attcactaca actcgtacta acctgatcga aagagtcata 180
 tacaactctg ttaccatcaa caacagtgcg cagtccttac ctatgccgac gatcgcaacc 240
 tgtatcagaa atctaaatac tataaactg tcatcaacga atcacactgc cgatccacca 300
 cactaaattt ggtgcctaca ctgcacactc tagccaatca actattcatg ctaacacacg 360
 ctatactccg acttgcccaa t 381

<210> 15621
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G1

<400> 15621
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 cgacgacgcc gtcgggaccc ggtgggcccgt gtcctcgcgc ggctccaacg gctactacaa 180
 ctaccgccac caggcggaca tctgccatgc ataccagatc atgaagaagg gcggacttaa 240
 ggacgagaac atcgttgtct tcatgtacga tgacatcgcg catagcccgg aaaatccgag 300
 gcctggtgtc atcataaatc atccccaggg tggcgacgtc tatgctgggg tgccaaagga 360
 ttacactggg cgagaggtca acgtcgacaa tttcttcgct gttctgcttg gcaacaaaac 420
 tgctctcag 429

<210> 15622
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G11

<400> 15622
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 tggaagagag gagcttgagg agatggcgag cgccgagggc gagaggtggg tgggactggc 180

gacggacttc tcgcagggga gccgagaggc gctgcagtgg gcggcgacca acctgctccg 240
cgccggcgac cacctgctgc tgctgcacgt catcaaggag cccgactacg agcagagcga 300
ggccatcctc tgggaatcca ccggctcccc gttgattccc ctcttggagt tctctgaccc 360
tattatcgcg aagaaatatg gagcaaaaac ccgacatgga aaccttggac ctctgaaca 420
ctacag 426

<210> 15623
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G12

<400> 15623

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gacggattcc tgtgccggcg gacgggatgt caggccctct cgaccgattt gctaggccat 120
gctttgaagg gtttgtacat aacgatgaaa ggaaagagag cagatctgat gcagacaact 180
cagaaggaga taagaagact aagattgggt ctttcaagaa aaaagcaatt aatgcgggga 240
acaaattcag gcattccttg agaaggagaa gcaaaaaaaaa gaccgaaagg ggggattcca 300
tcaaggacat aaggagcgtt aaagagcttc aagatgttga gacattccga caatgcttaa 360
ttgatgagga tttgctgcc aacagcacg atgattatca catgatgtta aggttcctaa 420
aagc 424

<210> 15624
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G2

<400> 15624

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ggctggcgac ggcacagtcg acgcggcaaa ggcgggcgga ggcaaggagc ccgtaagccc 120
gggcactccg tcctcggtgg ccgacggccg cagcagctgt gaggagaggc gcgcggtgga 180
cggcgctgcc ctgctgggt ggaagctcga cgccctctgc caggagtccg gcccgctgcc 240

ggccatgagg gcgcgcttcc cctactactt ctgaagcttc ccgttgccagt cctgcgtgat 300
 cgagttcttg agcggcgaca tctggtgcat gctcttgacg actgatggcg ttcttgggtg 360
 ttttccttgc tcagggtttt cctttcgtgc acgttcatgt atgaatgtta gtag 415

<210> 15625
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G3

<400> 15625

ggagagtggg cttggacttg aacgtgcaca catgggtatc ttcacagaat tgggaggggt 60
 atgtgctaga taccgctctg agaagcttat ggagcacatc aaacttttct ccacccgtct 120
 gaatattcct aagcttattc gagcttgtga tgaacaacag cactggaaag aacttaccta 180
 cctgtacata cagtatgatg aatttgacaa tgctgccacc acaattatga accactctcc 240
 agatgcatgg gatcatatgc agttcaagga tgtctgcgtt aaagttgcaa atgtcgagct 300
 atattataag gcagttcact tctatttgca agagcatcct gatctcatca atgatatgct 360
 aaatgtgctt gcacttcgtt tagatcatac cagagttgta gacataatgc gcaaggctgg 420
 tcagttgc 428

<210> 15626
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G6

<400> 15626

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 acagcttgct cccgaggccc ggctacaagc tctacgagcg gcgcgcctg ttacgaggga 120
 tggaggcccc gtacttcgac cttgtacccg gcgaaggctg ggaggtcgac accgacgggtg 180
 tccgagctct cgccgacaag aacacggttg ccgtcgtcat catcaacccc ggaaacccgt 240
 gcggtaacgt ctactcctac gagcacctgg ccaagggtgc tgagactgcy cggaagctcg 300
 gcgtgtttgt cgtagcggac gaggcttacg cgcacttgac gtttgagag aggaggttcg 360

tgccgatggg cgtgtttggg gccgtggctc cggtcatcac gctgggggtcc atttcg

416

<210> 15627
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G9

<400> 15627

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cgacgtaggc gtcacacatg gcatcctagt tgtccgccgg cgttccccgg ttccacgggc 120
tgccggggcta cgccgcgccc aggtccgagg aggcagcgct gtcgtccgtg aggggtgagca 180
cgaagaggtc gacgtcgcag ggcattgctgt gggactacat gggatccgcc atcaacctga 240
tcattggtgac gacgacgacg ctgatgctgt tcgcggagcg gttcgggttg gcgctgaccg 300
ggaaccgcaa ggcgacggct gtgctgaagc tggaggcgcg cgacttaggg ctgcacactg 360
gtgacgccgc ctggtt 376

<210> 15628
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-H10

<400> 15628

gtggtttctt cgctggctct gccttggtt cattgtgttc attgctgttg tttgggtcat 60
acaagaattt acatctttcc atattctgaa atatgtgac ttattcatag gtgtgatgaa 120
cagcttattt tcagtttacg atatttatga tgacttgata tccogaagag ttaacacaag 180
tgatgctgaa aagtttgctg aaatctgccc ttgccctgc aatgggtttg catgggggtg 240
tatatgggga ttcattctgt ttatctttct ctgcgttca atataccttg gactgggtcat 300
attgtcttga gggttcgcca ttctgatctg acaatcgact ctgattggct ttttcgaagc 360
ttcgttgctc gaggttttgg ttcaagctta catgggtctg gtggttgtag agtatacatg 420
tg 422

<210> 15629

<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-H11

<400> 15629

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tgcagtctgg ctggcgtgat gctgcttcgg agcgcgtcct cgccgctgct caactgcggg 120
cgcgcgccgg ctgcggcgcc gtcggtcgag cacctcgagg tggtttcgcc gttgttgtca 180
ccggcagtgg cggcgcctag gcaggggccc gtgctgtgcc gcgccatgtc cgagggggac 240
ctcgccgcgc cgctcgtgcc caagaaggat gatggacacg ggagggcgcc gaggctatcg 300
gcgtccttgt cctcgtccgc ctccatcttc gtcgaggagg acggcgaggg cgaggaggag 360
gaggaggacc tgntcgcggt cgcggtcgcg ggggccggcg tggacgtgcc gctgccgctg 420

<210> 15630
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-H12

<400> 15630

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gaaccacctt ctgttacta tcaactctgt ggtctccgcc tgaatccaaa tctgtatgag 120
tcgggaaaag tgtgcctcag cctcctgaag acatggacag gcaactggtaa cgaagtgtgg 180
aatgctgaaa gctcaactgt tcttcagctg ctgttatcgc ttcaggccct tgttctcaac 240
gaaaaacctt acttcaacga ggcgggatac gaacaatttg tgggcaaggc tgatggaaaag 300
aagaacttca tcacgtacat tgagattgcc ttcctctgtc atgcanatcc atgatgtatg 360
ttttacg 367

<210> 15631
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D5

<400> 15631

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aacaggagca acaacaacaa ggctcctcgc aacaatccat tctcatccat ggccaagctc 120
atgaacaagt tggctgattc gttcgagcac gacgagatac cggacgtcgg ctgctgctgc 180
gccgtgctgg ccgagctcgt cctcaccttc ctcttcgtct tcaccggcgt ctccgacgtc 240
atggccgacg gatccgacgg gaagcccggc gacgctatgc cgatggcgac gctggcagcg 300
ggggctatcg cgcacgc 317

<210> 15632

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D6

<400> 15632

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aggctttacg gaaccgcagt ttcaaaagct tagggaaata aaaccaaaga aaagcagaac 120
ccagcggaa cgccttgctt cctgctgctg cctgcagagg aagatcatga gaactatcaa 180
ggagagcatg gacgagctta acagccagcg caaaagcatc tgggtggagcc ggtggatacc 240
ccaggaggaa taaggcggcc ggaagcgcac atgttcattg gtcaactctg gatgaaacgt 300
tacattataa cactgggtgga atgggtgattg gattattcca ctatcctact aactgctttg 360
tacatgctga caactgggga gtaaaattca tttgaaaaa 399

<210> 15633

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D7

<400> 15633

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agatggcggg ggacgaggtg aactcggctc acgtcgggtg ccttccttac gaggccaacg 120

aggagatgct tcgcgacgcc ttcgggtact acggcaccat cgtctccgtc aaggtgatta 180
atgatcatgc tgtcaaaggc aagtgttatg gttttgttac tttcactcac cccagagctg 240
ctgagcaagc aattgcgggc atggacggca agaaattagg caaccgtatt gttcgaggta 300
aatgaagtgc gtacaagagg cccccgcgaa tttggcccaa aatgttttca gacgagatcc 360
aaggaggtat ggtagagatc catactggga cagaaggac aggggaacgga gct 413

<210> 15634
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-D8

<400> 15634

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ttctctcttc cgctccgagg cgcccgccac gccttctctt cccctccgcc gccgagcctc 120
tgcggcgctt accacaagac acaactccca gctcaaagtc tccatcaagc cctcgagtt 180
cgagctgcgg caccgcgccc cggttctcgc tccggcgcca gctctgctcc ctgaccgcgt 240
cacgccgttt tccttcgacg cggacggcca cgaccatccc cgagaggagt gcggcggtgtt 300
cggagtcatt ggcgaccag acgcgtcgtc gctctgtac ctgggcctgc agaagctgca 360
gcaccgcggn gaggagggcg cgggcatcgt tgcgtcggac gccgacggca agctcaatgc 420

<210> 15635
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E1

<400> 15635

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cgggtggcagc aaggggatcg ggcaagccgt cgtggaggag ctggccaggc tcggcgcgcg 180
cgtgcacacg tgcgcccga gcgcggcgga cctggaggag tgccgccggc ggtgggcccga 240
gaaggggctt tgcgtcaccg tctccgtgtg cgacgtcgcc gtgcgcgccc accgggagaa 300

gctcgtcctg gacacggtca gcgcggcctt cgacggcaag ctcgatatc

349

<210> 15636
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E10

<400> 15636

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acacgatgtt atgactacat actcctactt aactacatt gatatatcgc acttatctcg 180
attgccgata tgctggacgt gcgctacact ctacatgctg acattttctaa taacgtcctg 240
ccagccttac ggctaagtgt tgcatacagc taatcgcacc aaagcgtaca aaacacgagt 300
ataccaacgg cgccgacacc gaagcttggc cccaacgtga acgccttggt tgcccgtgta 360
ccgaaccgag gacctgcaaa cccaggccct tgcgatggtc cagcgccgtt ggcgccaaag 420
gctacaatgc cgatctctc gacgtccaat acggctgcct caatttcaa 469

<210> 15637
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E12

<400> 15637

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taaagccgag gcctcaccca ccacctgacc accatgtccc tccccctcct cagatcccac 120
ccgtctctcc accacgccgc gcgcctgtcc tccccacgca cccgcctgct cctccgccgc 180
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gccagctccc ctgcctcggc gccgccagct gccgtggtgc acaagtcaaa gatcaaattt 300
tgccctgctt gtggaagtcc aacgaaactg gccatactg atggcgatga gaagatgagg 360
gctggttggt cttcttgtgg aaagagtcac 390

<210> 15638
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E2

<400> 15638

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 ccgccgccag tgggagcttg atcccgccag ctgccctgat cgcagttgcc atccgctggg 180
 cgtcggcgctc ggcgtcccaa aagagggggc tgctgctgac gacggcgagg ggcggcgagg 240
 tcgcgccggt gaggtcgagc gggatcgaga cgacgtcgac ctccgtggga gctgaggccg 300
 tcaccgggca ggtcacggag gtcaacaagg acaccttctg gcccatcgtc gaggccgccc 360
 gcgacaaggt cgtcgtcctc gacatgtaca ccgaatgggt cgggccttgc aaagtgatgg 420
 ctcccaag 428

<210> 15639
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E3

<400> 15639

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 gcctgtatct tgaccatctg agatgtattg atagagttgg gtaatgctgt tgggcgtatg 180
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 tttgaataaa gaaagccggt atggtttctca tt 272

<210> 15640
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E4

<400> 15640

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 accaactcta tgtaaaaaga atagcacgac gtatcgatca cggagaaaac atctgaaaaa 180
 cctaataatac gccaccgacc aagctaggag ctacgccatc tataacgcgg aacaacagaa 240
 tcaagaactg gactccaact tacatgtctt catcaaacc atgaccaga tccaagtcac 300
 cggaagctta tagatctacc tcccaaata tcaactgacca aagtaccgt ccaa 355

<210> 15641
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-E7
 <400> 15641

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 tccaactttt tggagaaaga ttaggaggac gtatggatca gtgagaaaag atctggaaaa 180
 ccgggtgtac gcgaccgacg aggcgaggag ctacgccatc tgtaaggcgg aagaagtga 240
 gcaagagctg gactccagct tccccgtctt catcaaacc atgaccagc cccatgtcac 300
 cggaggcttc tggctgggcc tcccaaata tttctgccg aagtacctgc ccaagcgtga 360
 cgagacgatc accctgctgg atgaggatga caacgagtc tacacgctat acctcgcat 420
 g 421

<210> 15642
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-E9
 <400> 15642

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cggggcccgg cgccgcccgg cgccttcctt cctccgtgcc gcctgcaccg ccgcgcccc 180
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cgccgtcacc gcgcttggac cccccgtgtc cgctctctt gcccgtagacc gcgccgagga 300
cctgcaggcc gagggcccgg cgatggcccc cgccgctggc gccacagtct acagtcccga 360
gctcctcngc cgccgctacg gctccccccc cttcaagggtg gcgctccggg cagggggacgt 420
gctga 425

<210> 15643
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-F1

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tccttggcca ctctagccgc ctcgcccgca ctgctaccgc gtcgccgacg aggcggagcc 180
tcaaggcgga ggccaagggc gagggtctcc cgggccttcc ctcccccgcc tacctcgacg 240
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ggatgctgat cccggagggtg ctgaccaagg ccgggctgat caacgcgccg cagtggtagc 420
acgccggcaa gtcggagtag ttcgcgtcgt c 451

<210> 15644
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D2

<400> 15644
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caacgctgat atcaacttgt gcaaagtgtg gaaaagtga tgccatgttt gaggtatttt 180

atgagatggt cagtgtggt atagagccaa atgttaacac atacagtga ttaattgatg 240
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agaagtgaa gccagatcga gttgtcttca attctttgat cagtgcattgc ggtgaatctg 360
gagctctggc tcgggcattt gatgttttat cagaaatgac agcagaatcc tctgaatcta 420
aaggatggaa 430

<210> 15645
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-B4

<400> 15645

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cgaaccctct gttcgagaaa aggccgaagc agttcggcat cggcggcgcg ttgcctccca 180
agaaggacct gcaccgattc gtcaagtggc ccaaggctgt gcgcatccag cgccagcgtc 240
gcatcctcaa gcagcgctc aaggtgcctc cggcgctcaa ccagttcacc cgcaccctcg 300
acaagaacct cgctaccaac ctgttcaaga tgctttctta gtaccggccc gaagacaagg 360
ctgccaagaa ggagaggctt ctgaagaggg cccaggctga gaatgaagga aaaactgttg 420
aatc 424

<210> 15646
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-B8

<400> 15646

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ttaaaaaaag gagaaatttg ttgggtttga agaaaaatta aagggaattc tatcaatttt 120
aattttccat taatttagtt agtttttctt aatggaaatt gaaattatta actaacagag 180

caaacacaaa taaagaaaca actttgctga ccatgataga tttttatcta gttggaagag 240
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 gagaggatag aggataggct cattacataa aaaaaagata tggaaatagc cataatacat 360
 aacanaaaag aaaaaaagga gcgggagagc caaatgaatc gaaagattca tgtttggttc 420
 gggaagagat cataaaaatt gtaaaactta tagca 455

<210> 15647
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 15647

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 agcggatctg gttccgttta gctagggttc cgtctccctc caccagacct gctcaacgcc 120
 ttccacgggc gcacctcgac gtgccttgag ctagggtttc ctctgccgct acctccgttt 180
 tacgcggccg gcgcgcagcc atggcgatgg tgcaggcggg catgggcctc acccgggtcg 240
 tggctctcgt tggcgccggc gtcgccggt ccgctgttct ccgcaacggt cgcctcgccg 300
 agatcctcgg tgagcttcag gggatactcg acaaggggaa caaggggaag gacggaagaa 360
 ggggagacgg ggaaaccgat ctcaacgagg ctcttacctc gcaggtgcgc cgncttgcca 420
 tggagat 427

<210> 15648
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-C1

<400> 15648

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 agcgtaccgg tccccatcct ccttttccga accaccggag cgcggcggcg cggcgcgaga 180
 cccttcccgg cttctactcc tccgatcctc cgcaccggct gacgagtagc ccaactcactg 240

ggggacgtgg gatcgatcgg cggctgatgg gaggctagat tccgcaatcc cacagactag 300
acacatcccc ttccgcggttg actttggcga atcgaccttg atctgaaaat ggggctgttc 360
cgggcgggcgt ccggcctggc ccgtttggct ctgcaagga acctcttgcg cgccgcgga 420
agccccctt 429

<210> 15649
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-C11

<400> 15649

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aattcctct tctccaagt actccgtgc ggacagctcc atggacctgg gcagctgccc 120
gttctccgag gtcgaggtgg gcgggggaag tctgcgagaa ggtgacgagt cggagaagga 180
gaggccactg gttctgcgca acaaggcgcc gaggtggcac gagcagctgc agtgctggtg 240
cctcaacttt cgcgggcgcg tcaccgtggc ctccgtcaag aactccagc tgatagctcc 300
tgcaaagacg cagccgcagc cgcaggcctc cgccccccg ccgcccgcgc cgccgtcgtc 360
gtcgctgtac catgaccggt tgatcctgca gttcggaag gtcgggaggg acatgttcac 420
catggacta 429

<210> 15650
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-C5

<400> 15650

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tccccgtct cagctatcgg gtttgagggc tatgagaagc gccttgagat cacattctct 120
gaggcacctg tctttgtgga ccctcatggg cgtggtttgc gtgccctctc cagggcccag 180
attgactctg ttctggatct tgcacggtgc acaattgtgt ccgagctctc caacaaggat 240
ttcgactcat atgtcctctc tgagtcaagc ttgtttatct atcctctgaa gattgtcatc 300

aagacctgtg gcactaccaa gctcctgctc accattccaa gaatccttga gcttgctgaa 360
gagctgtcta tgccacttgc tgctgtgaag tactcccgtg ggacgttcat ctttctgtgt 420
gcac 424

<210> 15651
<211> 293
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-C8

<400> 15651

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átagagcaga tgaaatggct gacgactagc cgggctaggt gccgtgcâtc tacctgcaaa 120
ggcggcgtagc cagaagaagg tgtggacatg ggagaagtct cgcâtcggca tgcttgtggt. 180
cactggaaag cttngaacga tgaacgctga tâtctgctcg atgcaacttt cgggtggggta 240
catgattcaa tttgctatgg tgaaaatttt gaccgtagct tagacaataa ata 293

<210> 15652
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-D1

<400> 15652

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ggcatggcgg tgagcaacaa catcacggca tgcatcaact tcttggtgct tctctgcacc 180
atccccatcg ccgcgacggn gctgtggctg gcctcgaggc acggcggcga ggactgcgcc 240
aggetggccc gctggcccat cgcctgctg ggcgcgctcc tctgctggt cgcgctggcg 300
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gccgcctaa tacgtcttc ttggcctt 388

<210> 15653
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D10

<400> 15653

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ccaagctcaa aaaagcgccg cccggcgccg atgttgctgc ggcggatgcg atggatgtcg 120
gagggggacg gccggtggga gctggatgcg gagaccccg tgacgatgga gggcacggcg 180
cgccccgtcc cgggggaccc cctgccgctg gggctctcac ggggctaccg catcaccgt 240
cccaagcagc tagacttctt ccaccggttc atggcgctcc ctctggtacc caccttctcc 300
gcatgcgcg acggcctctc cgtcaaccac gccacattt tctacatgac agacaactgg 360
tctttacca tcttgagaa aatcaatgtt aagaagcttg tgtctgtcgt gaaagagaaa 420
tta 423

<210> 15654
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D12

<400> 15654

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tttccccaga cactccacgc tcaatcttcg tttacttccg gggacttttt tatgacacgg 180
ggaatgacct cgagggcgga tactatgcaa gaggtgcgcg agcttcgcta tgggagaact 240
tcaagagcaa ccctctgttt gacatttcca cagaccaccc tgccacttac tatgaagaca 300
tgcagcgcg tgtcttctgc ctgtgccc atgggctgggc accgtggagc cctaggttgg 360
ttgaggctgt ggtctttggc tgcattccag tcatcatagc tgatgacatc gtgcttccat 420
t 421

<210> 15655
<211> 443

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-B3
 <400> 15655
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 tcggcccctg ttttcctaag ccgtcgctcc tgcttcggg gaaatttcgt gtccagtatc 120
 ttgatcttcc gccgcgcgc ttcacgccag ggctccttcc accggcgctc tccttaccgt 180
 cgtcctctac tgggtgctgga ctgctgcggg ggtggagatc ggcttagatc aactcttaat 240
 tttgccggga ctcttttagag ggcgcgtgcg ctggtacagc aaaaaatgag tgataacctg 300
 atggaaaagg ttagcgcctt tgggtgagcgc ctgaagatca ccgggacgga ggtagcaag 360
 aagatgacgg ccggaatgag ctccatgagc ttcaagatga aggagttgtt ccaggggcag 420
 actcccgctg ataagattgt tga 443

<210> 15656
 <211> 332
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-H7
 <400> 15656
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 aattttgaca ttgccttcta aacacaatca tgcgatcatc atacttctaa tacctgctga 120
 taatttgctg cacaatatca catactgccg cgattttaca cggcgatatgc gtccacctgt 180
 aaacgatgtc agagtactac cacgattgcc ctgactctta catccaggcc agcacctaca 240
 gccttttaaaa actttacctt atgaacctga actacgccat tcgtctacaa cctgtggacc 300
 catgccattg ctggctgcgc cttttacatt tt 332

<210> 15657
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-H8
 <400> 15657

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cgattgaggc tatgttgctt ttaccctcgg aatttcattt cgcggttggg gcatggatga 120
agaggaactc acctccggcg gctgcgactc tgcgttgctg gcgccggaac cgcggaaca 180
ggctgtcgaa gaggggaggt caccgcgaga cgcgaggcg ttcgaagact ctgtggaaga 240
ggc 243

<210> 15658
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-014-Q1-K1-A12
<400> 15658

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ctcacctatc actagcggcg tggagagtgg cagggaaatcc tcattttttg tactgacggt 120
acgatataca acaggggaac ttggtacaga accagccaag ctgcaagttg aagaaatccc 180
aagccaagct gaacaggttc ttatacagaa ccagcagctc ccggccatgg agaaagagaa 240
gcaatccggt cctgaatgct cgctccaaaa aagtgttagt tctggatgcc tcaactcagc 300
agattggatg aatggacctg ccaggccaaa ctttcttgac ttccaggggc tggactttga 360
ggcagcattt gggctgagga gagcttacag tgaaggagac attcagatat gaaatgaggt 420
tg 422

<210> 15659
<211> 375
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-A2
<400> 15659

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ggtattgttg cagcggaag gttttcaatg cctgcccctt ctttgctca tggccgtcat 120
tgggcacat gtcattcgat tggtgcggcg ctttactaa ttgcgttoga gctgcttctt 180

tgtatatatc ttgaaagcat aagagttaga aatcatccat ctggtgatct gaagattgtg 240
 ttcccttccc ctggtgggcc tttgaagcca ttaatcctta ttgacaattt tagaatgtgt 300
 agagctttaa tgccctngga ttgaaaaagc atgagtgatg aagctatttg ggagaccact 360
 tctcattttt gggtt 375.

<210> 15660

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-A6

<400> 15660

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 ggggccgtcc acctcttcgc atcccggagc ccaccggctt cttggctcgc cgccgcgacc 120
 ggacgcctct tcgctggctt cgtgcgcacg ctctcggctc tcgcttgact acgcgccgcc 180
 caccagccct cgcccggagg tcggcgccag cgagctcgcg ttcgagctcg acgagaacct 240
 cgcgaggagc agccctgcct gcgagccata cgcccaagag ctgctcgcga gtgcccagga 300
 tcgccaccgc atcttccacg aggagctggc cgtgaaggcc ttcttggagg ccgagaaggc 360
 tcaccgtggc cagacgcgcg cgagtgggta cccctacttg caacattgtg tggagactgc 420
 tgtgctac 428

<210> 15661

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-A7

<400> 15661

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 ggcccttgga gaccggcgac gaagctagat gcgcgacggc gcgactgagc caccagcagg 180
 cgttccagct ccagcaggcc tcgtgtgtgg gcggcgtggg cctgccgctg gcggctccga 240
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gcggacggct gttcgtggga gacgcggcgg agagcggcgt cacgttcgga ggaggagggtg 360
 cggtgcacgt gcagcaggag gcgccccgga agcggaagcg cgccgagcag gggcagacga 420
 cgccgtcgggt tcttgggacc ggcgc 445

<210> 15662
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-A8
 <400> 15662

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 cattggtgct tcaaacaggg atgatgcctt ctacaggtac aagatgccca gaatgattac 120
 caagatagaa ggccgtggta atggtatcaa gacaaatgtt gtgaacatgg ttgacatagc 180
 aaaagcactt gccaggccag cttcctacac aaccaagtac tttggatgtg agcttgggtgc 240
 acagtccaaa tttgatgaga agacagggat ttccttgggtt aacgggggctc atgatactgc 300
 aaagctggct ggtctccttg aggtattcat caagaagtat gtccaatgtt atgggtgtgg 360
 aaatcctgag acagagattc tcattctcaa gaccagatg atatcactga aatgtgcagc 420
 ctgtgggt 428

<210> 15663
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-A9
 <400> 15663

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 gagagttagc caaacaagtc gagaaggaaa taaaggaatc agcacccaag ctcggcacag 180
 tgtgtgtata tggcggagtc tcatataatg tccagcagaa tgactctct agtgggtgtcg 240
 atgatgctga tggaacacct ggccggataa tcgatttgat caatggcgta agcctccagt 300
 tgggagaagt ccagtattag gccctggatg atgtgacca aatgctcgca gtgggggttg 360

cggaagatgt aggcacaata ttacaacagc tttctgcacg ctggcaaagc atgtcgatct 420
ctg 423

<210> 15664
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-B1

<400> 15664
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gtgccatcac taagaggatg actgccattg angagatggc tggatggac gtgctttgca 180
gtgacaaaac cggcacactc accctcaaca agcttagcgt cgataagaac ctcgtcgagg 240
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ctgagaacca ggacgccatc gatgctgcca tgggtggcat gcttgctgat ccgaaggagg 360
ccagggtggt tatcaggga atccacttct tgcccttcaa cctgttgat aag 413

<210> 15665
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-B11

<400> 15665
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cacccatggc ggacgtgcac gaacctttgg tgcgccgtaa gaggaagaag gttttggtgg 180
actacttggg gaagttccga tggatcctcg tgatcttcgt ggtccttcct atttcaactc 240
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gccagaagca gcacgacgag aacgtgcaga aggtcgtgaa gcggctcaag cagaggaacc 360
cgaagaagga cggctcttgg tgcacggcca ggaagccctg gatcgtgtgt ggcattgctg 418

<210> 15666
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-B12

<400> 15666

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ctagccttgt tggcgggtggc cctgggtctcc ctggccggcc cagccacggc cgcggggaac 180
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cagcgcggcg gctaccacca gtaccacctg gacctgtcgg ggcacccgac ggccggcatc 360
ggggacgaca tcaagcactg ccagttcgtg ggcgtgccgg tgacgtcttc cgtcggcg 418

<210> 15667
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-H6

<400> 15667

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gtttcgggtgt ttctgtcgg tggtggcgac gactgggcgg ccgacgctgc caccgcccta 120
cgccagaatg cagtggcgga aatttgatga gttagagctt attactggtc tgatactcct 180
atacgatgtc actgaaactt ccaattccgc aagggtttc cttcttaaga agtggtggat 240
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tccagacaga taaggagacg tacagacctg gtgattcagt cactgtgact atcgaaatct 360
gtagcccagc tagtttgaag gatgatgttg ggcaggcagt gtcaggcgag gatgccccct 420

<210> 15668
<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-F6

<400> 15668

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gtgaactcaa gcctgaggat ggacttccac aacaatggtg ccaacgagtg gctcggtttc 180
cggctcgagc tgattggaag ctttgttctc tgcttcacag ccgtgctcat ggtcacattg 240
ccgagcaact tcgtgaagcc agagtatggt ggtctgtcac tatcatatgg tctatctctc 300
aaccaggtgt tgntctgggc catctggatc agttgcttca ttgaaaataa aatgggtctca 360

<210> 15669

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-F9

<400> 15669

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aaaccaagga tactgatatc ttggcagcat tccgagtaac tcctcagctc ggggttccgc 180
ctgaagaagc aggagctgca gtagctgcgg aatcttctac tggtagatgg acaactgttt 240
ggactgatgg acttaccagt cttgatcgtt acaaaggacg atgctatcac atcgagcccg 300
ttcctgggga cccagatcaa tatatctggt atgtagctta tccattagac ctatttgaaa 360
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ttacgc 426

<210> 15670

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-G1

<400> 15670

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 agggagacat ttaaagattt tcctacatcg gctctgccat tgggtgaaac tctgcttgca 180
 attgatccag ctgagcgaca aactgcctca gctgcattac acagtgattt ttttttcaac 240
 cgagccttat gcttgtaacc cttcaagtct gccaacatat ccaccaagca aggagatgga 300
 tgccaagtta agagacgagg aggctagaag actacgagcg gctgcaaaag ccaaaggaga 360
 accagaaaag actcgaccac gtgatcgatc tcggagggct 400

<210> 15671
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-G2

<400> 15671

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 ccgcgccggg ccagctcgc caccgtccgg tgctccgtcg acgccaccaa gcaggcgag 180
 gatggcgtgg cgacggcggc cgcgacggag gcgccagcgt cgcggaagga gtgcttcggg 240
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 gtgaatgttg ctgtgtcagg cgcggccggg atgatatcag atcacctgct gttcaaactc 360
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 agat 424

<210> 15672
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-013-Q1-K1-G6

<400> 15672

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 cgcagcagag cagcacaccg agcccgaatc aaccgccgcc gtggccgtca gcgacgacaa 180

cgtgctatcc gacccccacgg tccacgctga ggcggggcacc gncagcgcca ctgaagagga 240
ggccatcccc gcgagagcagc agcagcatgg gttcgaactc ctncgnetgc cgtctcaccg 300
gctccaccac caccaccacc tctgggtgaa gcgccaccac gggatctacc gtgacgcgtc 360
gcacaagttc cctgggtctg gccacggcgc gaggcgcgag caggcagtga gccacc 416

<210> 15673
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 15673

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agacgaaggc gtgcagctc gtggggcgct tcttgccgc gtccgagccg gccgtgtccg 180
tgcagctcgg cgaccacggc cacctcgct actccacac caaccaggcg ctctcncgc 240
ccaggtcggt cgcgcccaaa gacgaagtgt tctgcctgtt cgaaggggtg ctggacaacc 300
tgggtcggct gaaccagcag cacgggctgt caagcaagg cgccaacgaa gtggctctcg 360
tcatcgaggc ctaca 375

<210> 15674
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-G8

<400> 15674

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tgggccgccc cgtgcagtca gccgtctcta ggtcgtcggc gaggaaggcg cccttcgtcg 180
tcagggccag ctccagccct ccagccaagc aaggtgccga caggcagctg tggttcgcgt 240
ccaagcagtc cctctctac ctcatggca cgctgcccgg cgactatggc ttctaccgcg 300

tgggcctctc ggacccggag ggcaccgggg gcttcatcga gcccaagtgg ctggcctatg 360
gcgaagtgat caacggccgc tacgccatgc 390

<210> 15675
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-013-Q1-K1-G9

<400> 15675

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ccggagggtt cactacatct ctctcgccgc ctctgctgct gcacacaact ccagctacag 180
gaagaagaag aagaacgcc cgtctccgcc gccgtcggcc gccgcaactg acaccgttgt 240
catctccctt cctgccactg acaatgttca gtccactgct ccgaagcagg ccgggcgaca 300
ggagcttgaa gagctcgtgg ccgccaagac taacacttca agaattgcta ctgcaagaac 360
aagtgcgccg agacagtctc aggctaagct tcgccgncgg cctgcccccg caatcacg 418

<210> 15676
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-H11

<400> 15676

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gaggaggcgg gggacaggaa taccaggag ccgcagcaag gtcaaggcct cagccttca 180
ctcgccaacg gcagcgacag cggcaggtct ggaatgttgc cgatgtcgaa ccttcagct 240
aatccacac agcttacaat tttctatggt ggatcagtat gtgtgtatga ctcggtgcc 300
ccagaaaagg ctcaagcaat catgcttata gctgcggctg cagcagctgc ggcagccacc 360
aaaggcagtg ctgccactgc ttttaactct ccaatgagca cttctgtagc agctggacaa 420
gctc 424

<210> 15677
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-H2

<400> 15677

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 taccttgga aaaccacctg cttacgatct tgcagtcac atcacgtat tagttgagga 120
 taatttcgca cacaagagca cgacaagccg agatttttgg gggcgtcggc gtcgacctgt 180
 aggcgatggc ggcgtactac cacggtggcg ccggcacgga catccaggcc agcaccgacg 240
 gcctgcagac gctgtacctc atgaaccgga gctacgccgt cgggctacaa cctgtggacc 300
 ccggccatgg ctggcgggcg cgcgacatg tcgccgcagg cgcaggcgca gactcccggc 360
 gccgcgggtg ctgctggggt cagcgccgtg ctcagcctgt cgtcccgcg 409

<210> 15678
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-H3

<400> 15678

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 accctcacgg aacagctaac tctacaatct gactcaatcc acccaccgct ctacctaca 120
 gtccctgacc tttctctcgc tcatccaatc ctcattctca cctactgcca cctcaacaaa 180
 cctctccttc tegtccagc acaccacagc tcctcct 217

<210> 15679
 <211> 101
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-H4

<400> 15679

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tgccgcgacc ctcggaattt cagttcgcgg ttggggcatg g

101

<210> 15680

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-F5

<400> 15680

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acaaggccag agttatctac cgagatttca agacatccaa cgtgctcctg gattcgaact 120
acaacgccaa gctgtctgac ttogggttgg caaaggacgg gccaacgggc gaccagagcc 180
acgtgtccac cagagtcacg ggcacctacg gatatgctgc tccggaatat ctcgcaacag 240
gtcatctcac gccgaagagc gacgtctaca gcttcggcgt cgtgctgctg gagatgctgt 300
cgggccgccc cgccatggac aagaaccgcc cggccaccga gcacaacctc gtcgactggg 360
cgcgccccta cctcagcagc aagcgccggg tctcccg 398

<210> 15681

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-H5

<400> 15681

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cactcactgc tatctccgcc gcgtccccgg aagtcgagaa agagtctcgc cctcgtcct 120
cgccgcagga atctctgtct gctgtcgcgg acagtgtgaa ggtgctcaag gtggcagcca 180
agacgaggaa agtacctgcc ccggaaattc tctcggcgt gtccaagatc aagaaggcaa 240
aactcgacac gtcggcattc tttgagacac tcgggtggtac tgagtctcca ggcaggacgt 300
ggatgcttat cttcactgca aagggtcggc tggagaaagg gcagtatttc ccagtacag 360
cagtccaacg cttcgatgct gcnnnggaac gcatcgagaa ggcatatatt tggccccatc 420
gggtgc 426

<210> 15682
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-D9

<400> 15682

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ggtgatcgat gaccggccgg tctggcgctc ggcttcgcc ccgtttctgc cctcgccctt 120
cagccggctc ggcgcctgtc cgagaccgac gtctctctc catccagtca gttgaccagc 180
tcgactgtc tagctcgtgc tctccgtcgc ggatttgatt tcttccttc agcccaacct 240
agcccaaagc cgccagatcg cggcactccg tccaacctc ggcgccaccg atcccccttct 300
ccacccctt ttcttcttcg tcgtcgggtga agatgattcc ccagagccag agcagctccc 360
tgcagcgct tcaacacgtc gagaagcgga tagtgc 396

<210> 15683
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E1

<400> 15683

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cgccgctgaa aagggtgctca gcttagagga aagagaaaga gagatgcctt catcagagaa 120
gtccttcaa actgaaccag gagagaatca aattcccaat gaacaggatg aaaaggacat 180
acgagatgag aatcaaactc taaaagaaaa ggatgaagat gacatgcaag atacagaatt 240
tggagaggct aagaaagaag ttcaacacga attacctgtc tccattttc tgatgaatct 300
aatattgcga aaagagagca gtgatgcaaa tgaagattca gaatctgaag ctgcaacgaa 360
gcaagtgaa gcgacagaag atgacagctg cacgttcatt tctgaacaag aagaaagtct 420
tgggtcactt cctac 435

<210> 15684
<211> 411
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-E11

<400> 15684

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ccaccgccct cccgctgccg tccgggacga cgcagaggcc gtctgcccag ggccgnctcc 120

tcttcaccgc cgcgcccgcc cgctccctcc gcctccgccc cgccggccgc cggtcggccc 180

gctcctcgcc tcggggccacc aaggctgtgg tggcagcggt ggctgctcct ctcaaggcca 240

tgatatcagg agctccggcg tccggcaagg gcacacagtg cgagctcatc aagaccaaata 300

atcaactggc gcacatctcc gccggagatt tgttgccggc ggagatcgct gctgggctctg 360

agaatgggaa gcggggccaag gaattcatgg agaagggcca gctcgtgcct g 411

<210> 15685

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E12

<400> 15685

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aaccaccaag ccgtgcaagc atcatggagt acggtcagca ggggcagcgc ggccacggcg 120

ccacggggcca tgctgaccag tacggcaacc cagtcggcgg cgctcgagcac ggcaccggcg 180

gcatgaggca cggcacggga accaccggcg gcatggggcca gctgggtgag cacggcggcg 240

ctggcatggg tggcggggcag ttccagcctg cgagggagga gcacaagacc ggccggcatcc 300

tgcctcgctc cggcagctcc agctccagct cgctcgagga cgacggcatg ggccgaagga 360

ggaagaaggg aatcaaggag aagatcaaag agaagctgcc cggaggccac aaggacgacc 420

agcacg 426

<210> 15686

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E2

<400> 15686
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 ccggttttgcc gaccagggtc caccgttcca gagtagccaa gcgaatcccg tgtctgggtc 120
 gcgcgatggc ggaggagcag tccaaccccc agcaccagca agcggaggag agggagggtta 180
 tgggtggagca gcagcagccg aggagggccc cgaagctgaa gtacctggac ttcgtccagg 240
 tggcgggtgc ccaggccgcg gtgtgcctcg ctgggctcta cggcctcgcc aaggaccacg 300
 ccggcccgtc ccgccccagc gttgacgccc tcgagtctgc cgtcaagggc gtcgttagcc 360
 ccgtcta 367

<210> 15687
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E4

<400> 15687
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 aagtatgtga cctggaaccc acggcgcagc gagtatccgt tgtcagaaga ggttgatcca 180
 atcaagagaa ctgaaagatc taacttgatg ctttggacga gtccccagtt caccttggtg 240
 ggggcgatta tcctcgtctt gacattacta atctacacac tagtcgttcc tcccaagtaa 300
 ctgcacaagt gacagctagg aagtgagttg taaatcaata ttatttcaaa tgggaagtct 360
 ggattgtaca atttttacgt gcattacacc aactacagta gt 402

<210> 15688
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E5

<400> 15688
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ggcttcggcc gccacggcgg cggcgtccag cagcacgtcg tcaaggagaa gtctgaggag 180
 gtcgacacgg tcgcacgcgc cggcgccaac caccaccacc accatgggtca ccacggcggc 240
 cacggcttcg tgggtgcgcga gaccagggtc gaggaggaca tcaacacctg caccggcgag 300
 gtccacgagc gcagggagag ctctctcgcc agggctaact gagcagcccg ggcgggccggc 360
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<210> 15689
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E6

<400> 15689
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 tcacggcca accgattgcc gctgaccccg gccatcgggc actgtccccc ggtttttctt 180
 taacgatttc cgattcgatt ccatggccgg ctggaccgat tccaccggca gcggcgggcg 240
 aagatcagga agaagaagct tcacgacacc ccgctatact actaattcca ccaatgacat 300
 gatccatgga agtaccagcg gcggaagcgg aaggagcggc aggtggaaaa gaagcaagtc 360
 aagggggtgg ccggccccgg a 381

<210> 15690
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E7

<400> 15690
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 acagcttcta cgcgtgcag tgggcaactgc agcacttctt cccgcccggc cagccgcagc 180
 agtaccgcct cgctcgtcgc accgccaagc ccaccgcccg ctccgtcgtc ggctcgcgg 240
 gccagggcgc cgcggatgtg ctgctgtacg ttgagg 276

<210> 15691
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E8

<400> 15691

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 gacatgcagc gcgacgaggt gttcaacagg gacaacatcc cgacgtggct gtcctacgcg 120
 gggtagcccg cgctgagcct gatcgcggtg atcgccatcc cgatcatgtt ccgggaggtg 180
 aggtggtact acgtggtggt ggcgtacgcg ctggcgccgg cgctgggggt ctgcaacgcg 240
 tacgggaccg ggctgacgga catgaacatg gggtagaact acgggaagat cgcgctgttc 300
 gtgctggcgg cgtagggcgg gaaggacagc ggcgtggtgg ccgggctggt ggggtgcggg 360
 ctggtgaagc agctggtgct cgtgtcggcc ggactgatgc ac 402

<210> 15692
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E9

<400> 15692

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 caccaggtcc aggggcagca gcagtagcgt ggcgaagggg tcaccaccac cagccttcca 180
 gttccagtgc agggcgctga ctttcgcggc ggacaccagc ctccggctcg agctggacga 240
 gaaccccgag gcgatcatct cgggggcgtg gcccggaac tgctccctcc tcagctacga 300
 cgacctccgc gcctacctcg agtcgcagga gacggcggcc caggcagacg atcagcgcg 360
 cgtggcgctc ctgagcgaga ccatgtccac acccgtgctg gtggccacag cagaccagac 420
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<210> 15693
 <211> 413

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-F10
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 aaaccaagga tactgatata ttggcagcat tccgagtaac tcctcagctc ggggttccgc 180
 ctgaagaagc aggagctgca gtagctgcgg aatcttctac tggtagatgg acaactgttt 240
 ggactgatgg acttaccagt cttgatcggt acaaaggacg atgctatcac atcgagcccg 300
 ttcctgggga cccagatcaa tatatctggt atgtagctta tccattagac ctatttgaag 360
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<210> 15694
 <211> 347
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-F2
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 acgtgtacac caaagtcatt ggacactacg gatatgctgc tccggaatat ctgcgaacag 240
 gtcattctac gccgaagagc gacgtctaca gcttcagcgt cgtgctgctg gatatgctgt 300
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<210> 15695
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-F4
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ccaatgctgt aatggatcga tcgtcagatt cttccaatcc accaggtctt gccgtgcctg 240
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cgctgctcaa tgctcgcgct ggttttggtg gcgatacaag cctcttctca acctcgctgc 360
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<210> 15696
<211> 359
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-013-Q1-K1-D7
<400> 15696

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gcaggacaac aaggacaagc agaaggccat gaaggctgtc tcggcgctca ccggcatcga 180
cgagatatcc gcggacatgg cgtcgcacaa gatgacgggtg gtcggcatgg tggaccccg 240
gagcgtggtg agcaagctgc gcaaggcgtc gtggtcggcg accatcgagt ccgtcggccc 300
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<210> 15697
<211> 460
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-013-Q1-K1-C11
<400> 15697

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gcccgcgcc gccgcggagg gcgagggcgt gctcacctc gacgtcgaca gtttcgacga 180
ggcgtcgac aagcaccct tcatggctgt cgagttctac gcccctggt gtgggcactg 240
caagaaactt gctccagagt atgagaatgc ggccaaggca cttagcaagc atgaccacc 300

gattgttctc gctaagggtg atgctaacga ggagaagaac aggccgcttg ctaccaagta 360
 cgagatccaa gggttcccaa ccatcaagat attcagggaac caggggaaga acattcagga 420
 atacaagggc cctagggagg ctgatggcat tgtggattac 460

<210> 15698
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-C12
 <400> 15698

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 acgcagccga gctcgacgtc gcgaccgggg gcgtcagctt cgcgcctcag ggctccgacc 300
 aggtgctaca acctttggag gttaccaacg tgccagaaga tgagatcctg attattcgct 360
 tcaatgaggt gctttctatc ggggagggaa ctttgacgat tgcattcaag gggactttga 420
 atgat 425

<210> 15699
 <211> 284
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-C2
 <400> 15699

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 cgagctgtgg ttcgagcgca tcccttcagc cacctactag ggcttacacg tcgcatggct 180
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<210> 15700
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-C3

<400> 15700

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 gttgtggtat ggtttagcct gggttatctt gtaaaaggat ctgaagtggg taaataatcg 180
 tgggtaattt cgttttt 197

<210> 15701
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-C5

<400> 15701

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 cgcgcgattc ggctcagatt ctgggctcct cttgtggttt ctggcggaat cggcgggata 180
 gggactcccc gctggagaat cttccgtctc ttctgctaac tggttggtat attttacgtg 240
 gagattgcat gccatcacct tccttgaagt gaaaaatata tgggctgata ttggcatttc 300
 atgggaggtt ttgaagatga tgaaccaccc tcaaacgcg caagagcatt ctcatagaa 360
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<210> 15702
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-C6

<400> 15702

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 gggaggacag ctgctgccgg cttcgccccg ggcgctgccc atcatcggcc accttcacct 240
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 cggcctgatg ctgctccgtc tcggcgctgt tcccaccctc gacgtgtcat cggcgcggaac 360
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 <212> DNA
 <213> Zea mays
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 cgtcaggtgg tagtcccggc gagcgagatc tcccactcc aggtctctct ccatcgctcg 180
 ctgccgcctc atgttgtttg cggccgtgct cgccaaccgc ggcacggagg cgtcgatccg 240
 accgggagcc cttcgcaatg gacaaagcct tctcctctc cggcaatgag ggcacgctcg 300
 gctcgctcgt aacatgggga agaggtagga gtagctcagc agtaggatgg agtggccagg 360
 acagctcggg gcccaaccgt cttcatcgat cgggaccctc tccccctcta gcgagctatt 420
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<210> 15704
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-D10
 <400> 15704

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 cccggatect cgcgcccgtc ggccgccagc cccggcccca gcgtcgtcgt cgtcgccctc 180

tcccaacttc ccgcgtcgtc gcggagcagc gaacgcagga gagcaccagg cctcacgctc 240
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ttcttcctct tcatgccgcc gttcttcaca gggaacaagg aggagaagga cgctgagaac 360
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<210> 15705

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-D12

<400> 15705

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cgggtggccct ggtctccctg gccggcccag ccacggccgc ggggaacaag accgggcagg 180
tgaccgtgtt ctggggccgg aacaaggccg agggcacgct gcgcgaggcc tgcgactcgg 240
gcctctacac catggtgatc atgtccttcc tcgacgtcta cggcccgcag cgcggcggct 300
accaccagta ccacctggac ctgtcggggc acccgacggc cggcatcggg gacgacatca 360
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ac 422

<210> 15706

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-D2

<400> 15706

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cttgctggg ccaccagcaa cgagtcgctg gagaatgcct tcgcctccta cggcgagatc 180
ctcgactgca aggtcatcac cgaccgggag acggggaggt cccgcggctt cagcttcggt 240
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gacggtcgta acatca

316

<210> 15707

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-D4

<400> 15707

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ttccccttgg gccatgaagg taccgcagga tgaggcgcac gaaggatggt gcgatgagtt 120

cgtgagagag atctagggtcg tcgtctccca gtcaactttg ggttgctgga ccgttgtctc 180

cttatatgta attattttatt ttgtatagaa ctcctattat atagtaaagt tgtgacattt 240

gaccctgtgc catgattcat catatgtgtg agacttggtc ccagcacacc tggtgattat 300

gttcgcgccc gggctcttgg accccgaaac ccgggtgtga cagggtgttg aatgtttcaa 360

ctaatttttg ccactaacta ttagtttttag tgcattcaaa caccctttaa tttaccaa 418

<210> 15708

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-D5

<400> 15708

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agcaagaagc ctgcccagaa gcccaagccc tctgcggtgt cgtcctcttc tccggacatc 180

agcgacgagc tcgccaagtg gtacggctct gacaggagga tctacctgcc ggatgggctc 240

ttggaccgct cggaggtacc ggagtacctc accggagagg tccttgagga ctatggctac 300

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atccatgcca gatgggcat gctnctgcc gctggcgct 399

<210> 15709

<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-013-Q1-K1-C1

<400> 15709

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gccttctacg aggccgtgct ggggttcgag cgcacccctt cgcccaccta ctcgggcttc 180
caggtcgcat ggctccgcct cccgagctcc cccgacgtcg cgctccacct catcgagcgg 240
gaccccgccg cggcacccgt cgcggtgggg cctggcgccg agggcgcgcc gncgtcgag 300
ctgccccggc gccaccacct cgccttctcc gtcgctgact acgacgggtt cgtgaccggg 360
ctgaaggcgc gcggcaccga tgtgttcgaa aagtcgcagc ccgatgggcg cac 413

<210> 15710
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A11

<400> 15710

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aaccaatcca ttttatatat acatacgaca tgccaacggt taaacaactt attagaaatg 180
caagacagcc aatacgaaat gctagaaaat cggccgcgct taagggatgt cctcagcgtc 240
gaggaacatg tgctaggggtg tatactatca acccaaaaa acccaactct gccttacgta 300
aagttgccag agtacgatta acctctggat ttgaaatcac tgcttatata cctgggtattg 360
gccataattt acaagaacat tctgtagtat tagtaagagg aggaagggtt aaggatttac 420
ccggtgtgag atatcgcat attcg 445

<210> 15711
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-013-Q1-K1-A4

<400> 15711

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 ccaatcactt gcacgcaatg gcatcctgag gtaatttagt tgtagctgtt tcaggagttc 180
 cacatttagt gttcttattg gttcttctt ttctcttggt cactgtattt attcctaggt 240
 tatattcaca acatatcaaa ttgtggccac tcaccaaata caagtggctt tatgccacaa 300
 taaaactgtc ctcatTTgat gcagaaagcc atttttgagt ggaggaaacc aatgatccca 360
 cacagcgaag atgcagtaca ggttactcaa cattntgcca atcattttat cagccaagca 420
 cgcaagtttc aaacag 436

<210> 15712
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A6

<400> 15712

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 tcttccttc ttcgtggacc gcagctacga gatgacgacc ttcaccttcg gatcccacga 180
 gttgcgcctc ctctgcctcc gcgcgccttc caattataaa gaaaaatata gagttgcagt 240
 catgttctga gaatgcacat gcagtgttga cagccgagaa actagagtgg ggaaactcag 300
 atcatttaag cgggtattatt gaaaaacatc ctggtggatt tgatcttgtt cttggagctg 360
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<210> 15713
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A7

<400> 15713
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tactgatatc ttggcagcat tccgagtaac tcctcagctc ggggttccgc ctgaagaagc 180
aggagctgca gtagctgcgg aatcttctac tggtagatgg acaactgttt ggactgatgg 240
acttaccagt cttgatcggt acaaaggacg atgctatcac atcgagcccg ttcttgggga 300
cccagatcaa tatatctggt atgtagctta tccattagac ctatttgaaa aaggttctgt 360
tactaacatg tttact 376

<210> 15714
<211> 375
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-013-Q1-K1-A8

<400> 15714
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ggctccagaa gaagtttctg atctgagggc ctgattaatc acacaccacc catcgatcga 180
ccaagcatca tctacttgta ggctctacag atgatgatgc ttttgatctt tgcttctttt 240
tttagtgtgt gtgtgtgtgt gtgttcttgg agtttctctt gactgatccc gatggaaagg 300
gggctacaga agaagccttt gacgaggagg ctgatcatga gtagatattg tgcagcaggt 360
tgcccacctt ttgtc 375

<210> 15715
<211> 428
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-013-Q1-K1-A9

<400> 15715
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ctactgcacg gtcattgatg cccctggaca ccgtagcttc atcaagaaca tgatcactgg 180
 tacctnccag gctgactgtg ctgtccttat cattgactcc accactgggtg gttttgagggc 240
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 gaagcagatg atttgctgct gcaacaagat ggatgcaacc actcccaaact actccaaggc 360
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 tgataaga 428

<210> 15716
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-B1
 <400> 15716

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 ctgttcgttg gatgaccgcc cgggaaaaca gtgcaaccat gaggggtggaa tgggacgccc 180
 ttagctgaat aataagagga accgggggtgt agttcgctta gccgtcgtgc cgtaaatgag 240
 gctcgggtgta tgcggctcgc tctgccaaagt tttgttcgcc ccttagggag gagtgcgggtg 300
 catttaggaa acctaacggg cggatacagc cctggggaat ctttgtaaag gctacatagt 360
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<210> 15717
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-B10
 <400> 15717

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 catggcgatg gacgacggcg gcgacgactt caccttcgcc gccgcccagc cgctcctag 180
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ccggccgaga tccccccgc gggctgctcc ggagacggcc accgcgcggg tgccgctagg 300
 acggttcctg ctggtggaca gggatccgtc gcagccgccc ccgctgctc ccgcggaaga 360
 cgacgacggc gacctcgact cgggtgccgc ggagatgttc tgcccgtggt cccgtgggtg 420
 gtcg 424

<210> 15718
 <211> 286
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-B2
 <400> 15718

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 cgagtgcctc tccgtaacga cctaattctt agataaccgc cctgataaac attccaacca 180
 tcatactcaa atcggacccc tttaacctca taataataat aaccgtcttt acattcactt 240
 atccttctga cctttaaata atctcataat atgcagctcg ctctac 286

<210> 15719
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-B4
 <400> 15719

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 gccgcctccc ttatcctctc cttcttgctc cgccagttcg ccgcgccgct cctcaagcat 240
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 gttcttcgtg taagcctggg gaacttcttg ttctttgcaa tttttctct cgtgatgatt 360
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<210> 15720
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-F8

<400> 15720

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gaccgttgct agggcccggc gtcgtgtccg gcagcgggag gggcggaacg gcgacgccgt 180
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agcttggtgca agacttaacc gtttccgcgt ttcgtggtgc gtcattgcgt ctaattc 357

<210> 15721
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-G3

<400> 15721

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tatttggtt cgcagttatc tagctatgtg atgtactgtt gtcttgctcc tgggtattat 180
atggtacact gcagccagta atagtaatct gcaactgtgc gttaaagtgt ccgtcgtttt 240
cct 243

<210> 15722
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-G4

<400> 15722

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cgggatcaac gccgtgtgca ctcacctcgg ctgcgtcgtg ccgtggaacg gcgccgagaa 180
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 accggcgcct ctgtcgtcgtg ccctggttca cgccgacgtc gacgacggca aggtcctctt 300
 cgtcccggtg gtggagaccg acttcaggac cggcgaggac ccgtggtgga aggcattgagg 360
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<210> 15723
 <211> 126
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-G5

<400> 15723

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<210> 15724
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-012-Q1-K1-G6

<400> 15724

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 aaccctgtt cgcaggctgc agcagccgct agcaccaga tcccagagtc ccagaccatg 120
 ccgccactgt gccttcttat tttgtccgcc gaacaagcca gtagtggcta catcgtgaag 180
 ggccggaagg cagatctagg gcgatcatgg cttacgtcga gagaggtgtt ggaaggcttc 240
 gtttatctgc atgaacaagg tgtcattcat agagatatca agggcgcaaa tatactgagt 300
 accaaagaga gaatgtacca tgaatcacat gaatttggtg gtcatatgtt caacactctt 360
 ctagagggtg ttctcgacan agaaagcttg tacctt 396

<210> 15725

<211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-G8

 <400> 15725

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 ggaagagtat tggatggttg tatctgccat attcgaggga aaggaaactt gcagtctacc 120
 atctgaatcg agttatgctt ataaatcatc atctgaacct tcaaggtcta catcattaaa 180
 cgacccatt aacaattaag ggcatttgct taaaaccatt cctcaattgg aagaaccagg 240
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<210> 15726
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-G9

 <400> 15726

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 cggcacctcg cccctgcttc cggcgatcac cttcatcttg gacaaggctg caccgtttat 180
 cccaaggag gagcccaagg cggagccggc ggcggaggcc acctcccggg aagtcgccgt 240
 ggaggagaag aaggaggagg ccgagccagc tgcagcgacg gaggcggcac cggcgccggc 300
 agagacaccg tcggaggaag cggtggtaga ggagaagaag gaagaagaga agaaggaaga 360
 ggaagataag cc 372

<210> 15727
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-H1

 <400> 15727

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ggtttgatgg actatgcgtt tgagttcatc atcaacaacg gcggaatcga caccgaggag 180
gattaccctt acaagggcac ggacggacgg tgtgatgtca acaggaaaaa cgccaagggt 240
gttactatcg acagctatga agatgtacca gcgaacagtg agaaaagtct gcagaaggca 300
gttgccaacc agcccatcag tgggtgcaa at tgaagctggt gggcagagc 349

<210> 15728

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-H10

<400> 15728

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tgggtggatg tgggtgtaaca tagtggctgc caacaagtca tgctcatgca aaccgatgaa 420
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<210> 15729

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-012-Q1-K1-H12

<400> 15729

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ttcccggtgg agatgacaac gatctggagc tgaacgcgga gtcccacttc ctgagcttcg 180

tgcagcgggtt cggcaagtcc tacaaggacg cgcagcagca cgcgtaccgg ctgtccgttt 240
tcaaggccaa cctgcgcgcg gcgcgcgcgg accagctgct ggacccgtcg gcggagcacg 300
gcgtcactaa gttctgcgac cttacgccgg cagagttccg nccgacctac ctcggccttc 360
gcaagtcccc gcgcgctctc ctcagagaac tc 392

<210> 15730
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-H3

<400> 15730

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atggtatggt cagtcattac gaccgccctc gtattgctca gctatgtgaa aaggccgggt 180
tgtacttgcg agccctccag cattactcag agttgcctga tatcaagcgt gccattgtaa 240
atactcatgc cattgagcca caggcacttg ttgagttctt tggcaccttg tcaagagagt 300
gggctttgga gtgcatgaaa gaccttctac t 331

<210> 15731
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-H4

<400> 15731

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tctaggagga atcaacttga ccaagctgca agccttaaag gagagcagat tggtaatcag 120
gggactctgc aattcctcga ggctgggaca gctcttcatt tccttgggaa ccccggcaca 180
ctttgcctcc atcaatgcat ctttaccggg gattgtgtgt gcagccaacg ggtctggcaa 240
ctggttgctg ctagggtaaa atcagatgac gaaaaagacg agtggtttgt cgtgaaagtc 300
atacatttcg ataaggagac aaaagag 327

<210> 15732
 <211> 127
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-H7

 <400> 15732

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 agatcggaga gtgggggtgga tacgcccgcg atcgtcgga tctgaaggct actacggacc 120
 ggctgat 127

<210> 15733
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-H8

 <400> 15733

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 gcgattcttc gccgagatat atacgaccgc ccacctacta taaattgggg gaaaggctcg 120
 gtcaccttgc tcggcgattc tgtccatgct atgcagccaa atctgggtca aggtggctgc 180
 atggctattg aggatgggta ccagctggcc gtagaactag agaatgcctg gcaagagagt 240
 gtcaagactg gaactcctat ggacatagtt tcctccttga gacgttatga gaaagagaga 300
 aggggtg 306

<210> 15734
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-A1

 <400> 15734

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 gctatacact cacatttgcg gggcattctc ttggctctgg tgtgggtgtca atgctagctt 180
 tgctggcagt gcacaacagg gagctgctcg gtggcataga caggaagagg atacgatgtt 240

ttgcaatggc accagcccgga tgtatgtcac tgaatttggc tgtccgttat gcagatgtca 300
tcaatgcagt tattcttcag gatgattttt tgcctcgac agacattcct ttggaagaca 360
tcttcaagtc actattctgc ttaccatgcc ttctatgtgg aagatgccta atagacacat 420

<210> 15735
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-F6

<400> 15735

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catttatgat cacgttgcgt gagctgggtca actttccaga ttttcttggtg gagagaacaa 120
ggtagcaagc tgctatggag cggaactgga cccacagaga caagtgcaaa gtctggtgga 180
gggacgaaga aggacaggta ggaggaactt ggtgggaggg acgggtgatg gcagtaaacac 240
ctaaatcacc tgattttcct gagagtccat gggaaaaata tgtcatacag tataaggagg 300
atggttctga tcacgtccat agcccctggg aacttcatga gacaggcagt ttatgggatc 360
catggaaaca tccacatatg gatctcacgg ttcgagataa 400

<210> 15736
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-D6

<400> 15736

cccacgcgtc cgaattaacc attgaatttg ttgattgcac gtccagtga tttggcggaa 60
catttatgat cacgttgcgt gagctgggtca actttccaga ttttcttggtg gagagaacaa 120
ggtagcaagc tgctatggag cggaactgga cccacagaga caagtgcaaa gtctggtgga 180
gggacgaaga aggacaggta ggaggaactt ggtgggaggg acgggtgatg gcagtaaacac 240
ctaaatcacc tgattttcct gagagtccat gggaaaaata tgtcatacag tataaggagg 300
atggttctga tcacgtccat agcccctggg aacttcatga gacaggcagt ttatgggatc 360
catggaaaca tccacatatg gatctcacgg ttcgagataa attgttatc 409

<210> 15737
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-D8

<400> 15737

gggagccagc accagccacc atgggtcgcg tccgcaccaa gaccgtgaag aagacctgca 60
 ggcaggtgat cgagaagtac tactcccgca tgaccctega cttccacacc aacaagaagg 120
 tgctggaaga ggtctcgatc ctccccctega agcgccctcg caacaagggt gccggcttca 180
 ccacccacct gatgcgccgc atccagcggg gccccgtccg tggcatctcg ctcaagctgc 240
 aggaggagga gcgggagcgc cgcattggact tcgtcccga gaagtcagcg ctcgaggctg 300
 aagagatccg cgctcgacaag gagaccatgg agatgctcgc ggcacttggc atggccgatc 360
 tcccgggcgt agagcgccag gctgaggtc 389

<210> 15738
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E10

<400> 15738

cgcctggcca aggagcggct cgccaagatg ggacccatga gcaaggagga gacgatgatg 60
 gccggcacgc tgctgcttac ggttggtctt tggatctttg gaggcattgct gaatgtggat 120
 gcggtttctg cagcaattct tggcctagca gtcctcttaa tctcaggggt tgtcacatgg 180
 aaagagtgtt tggcagagtc tgtggcgtgg gataccctta catggtttgc agcacttata 240
 gcaatggctg gctacctcaa caaatccggg ctgatctctt gggtcagtga gactgttgctg 300
 aagtttgctg gagggcttgg catgtcatgg caactctcat tcggtgtgct ggtgctgctg 360
 tacttctact cgcactatct cttttgccag tgggtgccga cacatcggag caatgttcac 420
 cgcgttcctg tcggt 435

<210> 15739
 <211> 379

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-E11

 <400> 15739

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 tgctcgaccg agtccgcttc ttacgggtccc agatgcatac catcattacc cgcgccctgca 120
 gcaatcttgg cgtgaaggcc ctgcccagct ggcgggttcat aaccctgata gctgtggcta 180
 tcaaagcgcg tcgagagttt ctaaagagca caatagtcaa caatagggac atatatagtg 240
 tctttgtttg acatgatgcc tacaatgtca gaaggcatgg gtgagtacaa catattaagg 300
 atttgcctt tagcggaagc tctattgacc ttgtttcggg taaacatgac acttttattc 360
 atagctttca tggcaaagt 379

<210> 15740
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-012-Q1-K1-E12

 <400> 15740

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 gcttagtgca atcatcgccg ccatgaaaaa caggggaaaa ccaagccgcc gcacccggag 120
 ttcattcaca ccagctctca acctcggggg ttttgctaag ggagcttcgt tgggacgcac 180
 agaaggagat tgtgccctcg ctggggaagt ctggagattc ctcgttgacg ttgaggggaag 240
 ccgcggagtt actgcacaac gtgtctagca tcatccatgt ctcaatcttc ggtaagaatc 300
 tgcaccatta gtttgttgta tgcctagggt catttagcat gtagccacac gatcgtttgg 360
 acaccagaat ttgtgggcga gtttcgtcga cgatggcgcc gncgcgggag cagaatgcgt 420
 catgatc 427

<210> 15741
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E2

<400> 15741

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gcacttctta gtgctcccct ggaaaaatat agcaatattg ttactgcatt agaactttca 120
aactatcctc gggttatgga ttatcttgat aatgctacaa ccaaagtgat ggctgtggta 180
ataattcaaa gcataatgaa aaacacaacc tgcataatcta cttctgacaa gattgaggca 240
ctattcgatt taattaaggg gctgataaag gatatggatg gagctcaaga tgatgagctt 300
gatgaagaag actttaagga ggaacaaaac tctgtagcgc gtctcattca catgctgcac 360
aatgatgatc ctgaagagat gc 382

<210> 15742

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E3

<400> 15742

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ccatggcgtc gatgacaggc ctctcgcagg gcgtcctgcc cagcaggcgc gccgacagca 120
gaaccaggac ggccgtcgtc gtcgtcaggg cgtccgcgga gggcgacgcc gttgcgagg 180
cgggcccgtc cgccgtgatc gggcttgtgg cactggcat cgtcggcgga gccttgtcgc 240
atgcggcgcg cgcctaga 258

<210> 15743

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E6

<400> 15743

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ctcaagaaac attatatatt ggctaattgat gaatggaagg aagatattct tccagagata 120
ctggatggtc acaacgttgc agattttctg gatccggata tcctagtaag gtgtgaagag 180

ttggaaaggg aggaaggggt tgcctggaa gaacatgctg cagaagatgc tttctagatt 240
 gatggccatg aactatctca tgaacagatg gagattctgg ctcagattag gatgaataag 300
 gcattactta tccaagaaca t 321

<210> 15744
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-012-Q1-K1-F10
 <400> 15744

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 aggccctaccc cacggtgaac gaggactacc tcaaggcgggt cgacaaggcc aagcgtaagc 120
 tccgcgccct catcgccgag aagaattgcg ccccgctcat gctccgcctc gcatggcact 180
 ccgcgggcac cttcgatgtg gccacaaaa ccggggggccc cttcggcacc atgaagaacc 240
 ccgccgagca ggcgcacgga gccaacgccg gactggaaat tgccatcagg ctgctagagc 300
 ccatcaagga gcagttcccc atcctatcct acgctgactt ctaccagctt gctggagtcg 360
 tggcagtcga ggtaaccggc ggacctgatg tccccttcca ccctgggagg caggacaag 419

<210> 15745
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-012-Q1-K1-F11
 <400> 15745

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 cgcgacaaca cgcagtcccc cgccaacggc ttctacacct acgacgcctt catccaggcc 120
 gtcaacttct tcccgggggtt cggcaccggc tccagcaccg acgaactcaa caagcgcgag 180
 ctgcccgcct tcttcggcca gacctccac gagactaccg gtggcacgac aggtgccgcc 240
 gaccagttcc agtgggggtta ctgcttcaag gaggagatca acaaggccac aagtcctccc 300
 tactatggac gcggaccaat tcaattgaca gggcaggcca actaccagca agccggggac 360
 gcgataggcg aggacctggt gaacaacccg gacctggtgt cctcggacg 409

<210> 15746
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-F12

 <400> 15746

ggttaaattt gatgaagctt cacagaagat aaaaatcttg gaggaacaac ttgcagagac 60
 acagagcaag ttggagcatt tccttataga gaaggaaagc ttgactcaaa caaatagtag 120
 tttgaatgag gagttggaag tacatcagaa caagttgaac gatttacaac ttgcacttgc 180
 tgctgcagta gcagaaaagg aggaggcatc tgaagagatt cattcgctgc ataaaacgct 240
 cgatggaatg attgagcaca aagcagaatt agaaatacag gtatcttcta ctatacaaga 300
 gcatgaagaa ctgaagagca agtaccaaaa tacaatggaa gagaaacatg cgttgagtga 360
 taaatatgaa accgcaaaga aagagctcga ggatgcaata g 401

<210> 15747
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-F3

 <400> 15747

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 gaatgaagat aatgtattgg caagaatggt agaccataag gaagctatca tatctcattt 120
 aagttgggct agcctcttcc taggattcca taccttgggc ctttatgttc ataacgacgt 180
 tatgcttgct tttggtaactc cagaaaagca aatcttgatt gaacctatat ttgcccaatg 240
 gatacaatct gctcatggta agacgacata tgggttcgat atactcttat cttcaacgaa 300
 tggccccggt ttcaatggca gtcgaaacat atgggtggcc ggatggttga atgctggtaa 360
 tgagaatagt aattcgcttt tcttaacaat aggacctggg gatttcttgg gtcaatatgc 420

<210> 15748
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-F5

<400> 15748

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taggggtgcga gcctggccag gtcacctacg catcagtcac caacgtgtac tgccggctcg 120
ggcgagcgcga cagagcagag gccatcttct ccgagatgat cgagcgaggc ttcgacaggt 180
gcgtggttgc ctatggcaac atgatctcga tgtacggcaa gatcaggagg gcgtcggagg 240
ccacgaggct gctggccctg atgaagcaga aggggtgcga gcccaactg ctggtgtaca 300
actccctgct cgacatgcac ggcatgcttg ggaactcgaa gcaagccgag aagatctgga 360
aggagatggt gcggcgcaag gtccggcccg accggatcag ctacacgggc attattcttg 420
cgaacaaacc ggccggg 437

<210> 15749

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-D2

<400> 15749

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gcagcagcgg cggcgatggc ggccctccatg atctcctcgt cagctctggc ggtggcgctt 120
cagggcctgc cgccctcgg ccgcccgcgc tctccttcg ccgtcgtctg ctccaagaag 180
aagatcaaga ccgacaagcc ctacgggatt gggggtggcc tgaccgtcga cgtctacgcc 240
aacgggagaa agggcaaggg caagggcgtg taccagttcg tcgacaagta cggcgcgaaac 300
gtctacggat acagcccaat ctacaacgag gatgactggt ctcccaccgg cgacgtctac 360
gtcggtgga ccaactgggct tctgatctgg gc 392

<210> 15750

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B4

<400> 15750

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ccaggctcggg cttgattccc ttacccccat aacctccatc cagaatcgtg tccgtagatg 120
gaagtctctc actgctaaga caatccagct ctttattggg gacatatgtg attttgaatt 180
cctctcagaa accttcaagt cttttgagcc ggatgccgtg gtccactttg gcgagcaaag 240
atccgcgcca tactctatga ttgatcgttc gcgggcagtc tacacacagc ataacaatgt 300
cattgggaca cttaatgtct tgtttgccat aaaggaatac agtgaagagt gccatcttgt 360
taaactagga actatgggtg agta 384

<210> 15751
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B5

<400> 15751

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gcgccccggc tgggggtgcgg gctgcacagg tgagcggcct ccagcccctc ggcggtctcg 120
cacagaccgg cagcccgctc cacgagggcg ggcgtaggcc ctccggcacga gcgcggctgc 180
acgagcatgg ccggcgcggg ggcacggccg gcgcggctcc ccggcgctca agcgggccctg 240
cggcggtgcg ggcagcaccg gcgtgcggcc ctccggacct ttggcggtc ggcgcatgcc 300
ggcgagcag ggcggctcag cccctcggcg caggcgcgcc caccggcggc ggttcggctg 360
gccgacgcgc ggggtg 376

<210> 15752
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B8

<400> 15752

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tcacggcgct cccaggaat gggcagcggg cgtcgtctc cttcctcggc ggcaagacgc 120
tgctgagaca ggccgagggc gcccgccgt cgttcgccgt gcgcgccgcg gcggacccca 180

acaggccgat ctggttcccc ggcagcaccc ctccgccgtg gctcgacggc agcctttccg 240
gcgacttccg ctttgatccc t 261

<210> 15753
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C1

<400> 15753

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ttcagcaatc gcacgcacag gtaacagtcc atcatctccg tatcacctcc ttggatcctc 120
ctctgttccg tgacttccac agcacgctgc caggagccct atcctcaatc atgtctttcc 180
cgccgagcta cacacettca ggagcccatc ccctcctccc tcaaacgacg ccgggtgaca 240
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ctttttgttt gccttatgat gattatctac tgtcagttac tcagttttat gatttgacta 360
gttactttgg tttgcggagc tggatggaac aatctttcag ggtgcttcaa cattaga 417

<210> 15754
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C11

<400> 15754

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ggcagagagt aacatgaatg acctggtggc cgagtaccag cagtaccaag acgccacagc 120
tgaggatgag gaggagtacg aggaggaaga agaggaagat cctgctgcct aagccatcat 180
cccaagtgct tggtaaagat atgatgtccc ttgtatcgct gctagtcagc actgagtcgt 240
ttgaggtgct cgtggtgatg ttaggtacta gatgggtgtc attacttatg aatgcgatgt 300
tgctgtgaca gaactgcatt tcctattgta ctatggttgt ccaagttgtc att 353

<210> 15755
<211> 428
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-012-Q1-K1-C12

<400> 15755

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caggaggagg agagctacgg ctctggatat gggaggaaac cgcaggcgga ggagagctac 180

gggtccggcg ggtacggctc tggctacggc ggtcagaccc ggccggagga gagctatggg 240

tcagcagggt atggatctgc caatccgcag gctgagacat acggctctgg ctacgggagg 300

aagccacagg tagaggagag ctacggatcg gagtatgggt ctgggttcgg taggaaccgc 360

aaattgagga gagctatgga tncgggtacg ggaggacgcc ccaggttgag gagagctatg 420

gatctggt 428

<210> 15756

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C2

<400> 15756

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cgtgggctac tgcaaggcac caaccctgag ctggaaggga agcggagtac caggccggat 120

tgtggtctcc atgtccacca cccgaagagg cctcgtctcc ctaagacgac gatccctcg 180

gtttcgcgtc tacgcggcga aggcggagac ggtgagcaaa gtgatggaca tcgtgaagca 240

gcagctggcg ctggcggcgg acgtggggct gacggcggag accaagttca cggacctcgg 300

cgccgactcg ctggacacgg tggagatcgt catga 335

<210> 15757

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C3

<400> 15757

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atctgcgtcg cctctccag gtagcagaaa ctgttctgct gcagtctgac aaagtggagg 120
gcttaggagc ttctgcttct tttatgtctg aacaatcttt gctttatttg ggattgttgg 180
gagagtactc tcgtgcaacg aggaaaaggc acaaggttcc gtccactgc atgcgtcaag 240
agcctgtctg gttttcttgt tctgatttgt catttgctgg tgctcagagc cggcttggtt 300
tcctcgaagg atcagcaact actcttgatt gtggactttg tcacatctga tatcaacttc 360
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<210> 15758
<211> 383
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-012-Q1-K1-C5
<400> 15758

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cctcctctc ctgcccaccg cctcggtcgc caccgacgtc gactactgca gtaagaagga 120
ctaccgggtg aaggtgagcg ggggtgcagat cgtgcccgat ccggtcgaac ccggcaagcc 180
cgccactttc aagatctccg cttctactga taaaaccatc gagaagggga agctggttat 240
cgacgtcaag tattttcttct tctacgtgca ctcggagacc cgcgacatct gcggagagac 300
ttctgcccga gcgaccggcg acttcgtgct gtcccaccag cagacgctgg caggcttcac 360
tccgtcgggc tcctacacga tct 383

<210> 15759
<211> 343
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-012-Q1-K1-D1
<400> 15759

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ggtcgcgccc accaccgct ccggcgggt cttagctgca tgctcgcgcc gccctcctct 120

ccatcatcca gtgctctctc ctcttgcat tcgctcgctc gatcctagct tcccttccaa 180
gaagcgcagc gcccatggcc atggccacgc aagcctccgc cgnacgcgc cacctgctgg 240
ccgncgcctg ggcgccggcg gcgaagccgc ggcagctgag ctgcgagctc gcgctgccgt 300
cgtcgtcctt ccgcggggcg gccccgctcc gcgcgtncac cga 343

<210> 15760
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-012-Q1-K1-D10

<400> 15760

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tccagctcct cagtagcagg aggtgcgctc gtgccgccgt agccggaggc gcggtgcctt 180
acggggctgc tccccggcgt gggatttggt cgatcagga tgacttggtg gtgccgaggt 240
ctcctactt tccagtggat tccgcggcgg ngcaagagcg tgggccgctc cccatggtga 300
tggagcgggt ccagagcgct gtcagtcagc tttccagca caggattatc cgggcgggtg 360
tctgttgag gatgatatgg ccaacatcat tgtagcacag ctgctctacc tggacgctat 420
tgatccact aagga 435

<210> 15761
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-D11

<400> 15761

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ccatggcgat ctctccacg gcgatggcgg gtactctcat caaggtgggc tcttcggcg 120
agggccgtat cactatgcgc aagaccgcgt gcaagccaca agtggcggac ccattgcact 180
ttctgacact gtccaacct gaaaggctaa tgggacactc tctc 224

<210> 15762
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-012-Q1-K1-D12

<400> 15762

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 gtccagctcc tcgcatattg tggcctgggtg cagattggag atccgcccgg acttggatcg 120
 agtcctcctg tctttggaca ttcattggag tgctccattc attaggcagc atgcctaaga 180
 taaagacaag ccgtgtcaag taccctgaag gatgggagct tattgaacca acaatccgtg 240
 agttggatgc caaaatgaga gaagctgaaa atgatccaca tgatgggaag agaaagtgtg 300
 aagctctctg gcctattttc cgcatttctc atcaaaggag ccgctacata tacgatcttt 360
 actacagaag gaaggagata tcacaggagc tntatgagtt ctgcctagac cagggttatg 420
 cagaccgtaa cctga 435

<210> 15763
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B3

<400> 15763

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 tgcctaaaagt ccctcgagca tgccgacgcc tcatctcgcc tgaacacgcc gacgcctcat 180
 cagggtgaggg gtgagccacc tctgcccga tcttcatgcc ctttcgactt ttggtttgtc 240
 atcgctgagt ttcccctaga tctaggggaag aaagggcgga tctcatgtgt gtgggcgttc 300
 tactcgaggg tggaagaatc ctgggcacat gtagggcgga tcgcacctat t 351

<210> 15764
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H5

<400> 15764

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gggcgcggcg gcggcggcgg ccatgagcag cgggagcgag agcactaccg ccagcagggtg 120
gcccagactg gccacgctgc gcgccctggc gcgcgacgcc gcggagcagc tgcggctgcc 180
gcgggcccgc acgtcggcgt cagcgtcggg gtcgtcgtcg ccgaggcgcg tgcgctagga 240
ccacctccac ggacacggca tgacagccaa ggtgatgcac ctgctgatgt ggtgaccgca 300
ctggagcgga tagaggccac cgtaccagct gcgtagctcg ttgagctctg tctgcaatta 360
gcctaggacg gactgcactg gactgtacct atacacctat atactacgac gtgcacatgt 420
accagtgtac gacgaactgc t 441

<210> 15765

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H9

<400> 15765

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ggcgcgccgc tcgccaaggc cactttccgc caccattca ggtacaagca ccagaaggag 120
ctctttgtcg cagccgaggg catgtacacg ggccagttcg tctactgcgg tcgccgcgcc 180
acctctcca tcggcaacgt gctgcccctc cgcgggatcc ctgaggggtgc cgtcgtctgc 240
aacgtcgagc accacgtcgg tgaccgcggg gtcttcgcca gggcctctgg ggactacgcc 300
attgtgatca gccacaaccc tgacaacggc acatcgagga ttaagctgcc ctctggcgcc 360
aagaagattg tccccagcag ctgccgtgct atgattgggc aggttgctgg tgg 413

<210> 15766

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A1

<400> 15766

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 cgctccttcc agtcccatcc ccgcccgcgt cgagccctac tctcagctcc aaccatgcaa 120
 gccccgttgc cgcccctact tgccgtcgca gccgcctccg catctccgcc acatccacgg 180
 ctgcgccggc tccttcgtcg gctgccgctg ccaccgcgtc gctgagtcga gtggacgtgc 240
 tctcggaggc gtcctctttt attcagcgat tcaaaggcaa gacggtggtg gtcaagtacg 300
 gcggtgccgc gatgaagtcc ccggagctgc aggcgttcgt gatccgcgat ctctgggctg 360
 ctctcctgcg tcg 373

<210> 15767
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 15767 .

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 ggcgcccttc gtcgtcaggg ccagctccag ccctccagcc aagcaagggtg ccgacaggca 180
 gctgtggttc gcgtccaagc agtccctctc ctacctcgat ggcacgctgc ccggcgacta 240
 tggcttcgac ccgctggggc tctcggaccc ggagggcacc gggggcttca tcgagcccaa 300
 gtggctggcc tatggcgagg tgatcaacgg ccgctacgcc atgctgggcy cggtgggcgc 360
 catcngcccg gagatcttcg gcaagatggg catcatcccc 400

<210> 15768
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-012-Q1-K1-A12
 <400> 15768

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 ggagctcatt ggttgctatg tccaaaggaa ctcttacac ccagcaatca tacaagggtta 120
 gtgagtcgtt tccttacaag tggatcaata agaagtggaa agaagggttc catgtgacat 180

ccatggccac cgctgggaat cgctggggcg tagtcatgtc aaggaattca gggttctcta 240
 ctcaggttgt agagttggat ttctgtacc ccaaccaaag gcttcaacga cgcttgga 300
 accgctacag gataacttcc acggcgccca ccaacgacca agccgctttc atcctgagca 360
 tgccaaagcg gaagccgatg gacgagaccc aggaaacgc 399

<210> 15769
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A2

<400> 15769

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 cgccgcgccg gcggacagca tgtcgatcgt ctctacggc gagcggagcg aggaggaggc 180
 gcggcgcatg tacgccgagt ggatggcgcc gcacggccgg acctacaacg ccgtcgccga 240
 ggaggagcgc aggttcgagg tgttcaggga caacctccgc tacgtcgacg cccacaacgc 300
 cggcgccgac gcgggccttc actcctttcg acctgggc 338

<210> 15770
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A3

<400> 15770

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 ggcaggtgga cgacaagccg ccgtacgcc ccgtggacga caccatgacc accaccacga 120
 agaagatggt ggaggagcag ctctcagacg acgccggcg cgccggcgag ctgccagagc 180
 agaactaccg tggatggaag gccatgccct acgtcatagg gaacgagacg tgcgagaagc 240
 tgggcacccat cggcaccacg gccaacctgc tgggtgtacct caccaccgtg tacggcatgt 300
 cggcgccag cgccggcacc ctgctcagcc tctggtcggg ca 342

<210> 15771
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A5

<400> 15771

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 cagatcgccg agttcaagga ggccttcagc ctcttcgaca aggacgggga tggttgcatc 120
 acgaccaagg agctgggcac tgtcatgcgc tcgctggggc aaaatcctac agaggctgag 180
 ctccaggaca tgatcaacga ggtcgatgct gatggcaacg gcaccatcga tttcccagag 240
 tttctcaacc ttatggctcg caagatgaag gacaccgact ctgaggaaga gctcaaggag 300
 gccttccgtg tgtttgacaa ggaccagaac ggcttcatct cggccgccga gctccgccat 360
 gtcatgacaa atcttggtga gaagctaact gatgaggagg tggacgagat gatccgtg 418

<210> 15772
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A8

<400> 15772

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 aggatatgct agcccaaaag agacttatga gagaggaaag tttattgtca aaaattcacc 120
 accccaagga tagatgcagg aagggtgtaa agcctatctc ttggatgatt cagctgcttc 180
 actgttcatg aggtgtcata catgcagtaa aggtgtgctg gacttttttc ttgtgcttcc 240
 accttgctg gtagacatgc aggtgtgtgt tggggattgt taattctcat tccccctctg 300
 aaatagcccc agctcgacct ccatcaagcc acctcttggt atgctagttt ggagcccaaa 360
 ctgaattgct tgtgctctcg acgatttccct ggtttccctt atgtgccttg ctactcatct 420
 acaccacgt ccccccc 438

<210> 15773
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-012-Q1-K1-A9

<400> 15773

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 gtctgcattt tctctactat acctctgcaa cacatttcaa aaagtataat gagccaactc 120
 ctctacttgt aatgtcaagg aaagcaacac aggaaatgat gtgcatgggtg tgcctaaaga 180
 ttcaaccctg tgggtccgttc tgccaaaccc catcttgtaa cagactatcg atggcaaagt 240
 actactgcaa catctgcaaa tttttcgatg actaaaggac tgtgtaccac ttgccgtttt 300
 gtaatttggtg tcgtcttggg aaaggtcttg gtgttgattt ctttcattgc atgaaatgca 360
 actgctgtct tgnaatgaaa ttaactgagc acaaattgttc ggaaaaaggg ctagagacan 420
 attgtccaat atgct 435

<210> 15774
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B11

<400> 15774

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 ccgaccaagg acgacgaacg ggtcgatggc cagctctcc tctgcagcc gcctgagtag 120
 cggcaccggc gccgcggcca tccaccggca gccggcccg gctggagccg tctcgtcgt 180
 cactgcagg cggagctcct ccgcgaccgt ccgcgccgca gccgctgcca cggcggcggc 240
 gccggctgcc gtagagctgc agaacaaggg ggtgtcgctg ccgacgtggg cggagttcga 300
 gctcgggcgg gcgccgtct actggaagac cagcagcggc cttccgccct cgcggggcga 360
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 cgt 423

<210> 15775
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B12

<400> 15775

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tgattaaatt gcaaatcaga ggtacccatg gccacaatgt aaattcgaaa ggtttttttca 120
tcataataaa aaattgcaat aattcagtga tcaatgggta atggagcaga actctcaact 180
tcatgattgg ctgttcgctt cgattaaagc caactggact gctgcagcta caatccatag 240
agataaaaca ctgtagaagc aatagaagcc ggtacggatt aaagccaagt gaacaggcta 300
agacctctct ctttctctga aaatgtacta ccaagaaccc tccttatcta cttacaatga 360
cacctttcct ttcttcacct gcccgtagcg cggagctgcc tttgcccttc cgccgctgcc 420
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<210> 15776

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H4

<400> 15776

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cgctggacgc ggacatgacg gtggacgagt tcaaggagtg gctgcggcgg ttcgacacgg 180
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acatcgacga cagcgaggtc gatggcctca tcgagttcgc gcagaagaac ctcggcctca 360
agatcgtcgc ctactgatct cacatggggc gcggcgcgcg gcgggtcggg ggtgggacgc 420
actagctcgc catgagct 438

<210> 15777

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G1

<400> 15777

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cgccggaggt gggaggcggc ggcatacgct ccgtgctcac cacggcctcg ctcgctcgctc 120

cctccgggga cgaggttcag tttcgggaga tcgacggcaa gatcatcggc ctctacttcg 180

cggcaaaactg gtatccgaaa tgcgaggctt tcaccccggt gctggccgcg gcgtacgagc 240

agctcaagga gcgcggcgcc ggcttcgagg tcgtgctggt gtcgtgcgac gaggaccggc 300

cgtcgttcga gcggttccac ggaaccatgc cgtggccagc ggtgcctttc ggcgacctca 360

gctgcaagaa gcgcctcagc gagaggttcc aggtggaggg catcccgcg cttggtggtgc 420

tc 422

<210> 15778

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G11

<400> 15778

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tggtgagcga ggcgggtggc aagtccggca cctcgccctt gcttcggcg atcaccttca 120

tcttggacaa ggtcgcaccg tttatcccca atgaggagcc caaggcggag ccggcggcg 180

aggccacctt ccgggaagtc gccgtggagg agaagaagga ggaggccgag ccagctgcag 240

cgacggaggc tgcaccggcg ccggcagaga caccgtctga agaagccgtg gtagaagata 300

agaaggaaga atataataac gaagatgaag ataaac 336

<210> 15779

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G12

<400> 15779

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gcagtagaag aaggccgcta ctgccttcgc ctcatcggt tccaagcatg ctaaccccaa 120

gcaggggttc gtctgctgag ctgtcatttt tc

152

<210> 15780
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G3

<400> 15780

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aatgaggatg agggaaagaa catgaaacaa ggaggaatga ctgaattaaa ggatgagaaa 180
tggggagggtg gatataatgg aggatatgga tatggagggtg ggtatgggtg tggatatgga 240
aaaccgggct atgggtgggtg atatgggtgga ggatacaggc ctaaatatgg caggggctac 300
aggaccggat atggatacgg tggcgggtat ggtggatgat acgggtggc 348

<210> 15781
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G4

<400> 15781

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gtaacttata ccttctcgca aaccgtttca agagcacaaa gagcttatta agacgcttta 120
tctagcttat ttacttaaca tcttctaata aattattgac tgagtaaaaa tacatatgat 180
ggttaaatth caatcattgc ccatattgaa catccaaatt ttgttaacca gcaaccaagt 240
gaccaatgcc ttaaaagaaa atctgaatct ctatctgggt cataagcaag gggtcattca 300
actacattgg tgcaacctgc tctaggaaat cataatggga atggagggtgc acacaatgtc 360
cttcggatgg ctaacgttgt acatcgattc aagagcttag ttgaatcttt ggaaattgggt 420
gttgtgctat c 431

<210> 15782
<211> 451
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G5

<400> 15782

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 ggtatggacg ccgtccagaa ggcctcatg ttcgaagacg aatgcatttt ggtggacgag 180
 caggacaatg ttgttggcca tgagtcaaag tacaactgcc atttgatgga aaagattgat 240
 tctgagaatc tgctacatag ggcattcagt gtgttccttt tcaactcaaa atatgagctg 300
 ctacttcagc aaagggtccgc gacaaagggt acctttcctt tagtttggac caatacctgc 360
 tgcagtcacc ctctgtaccg tgagtctgag cttatccagg agaactacct tgggtgtgaga 420
 aatgcaacac agaggaagct actggatgag c 451

<210> 15783

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G6

<400> 15783

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 agcgtcttta cttcaaagcc tctcatagat tcttcacttg tgaaaaatac atatgttggg 180
 ttaagttcag gcggtgcccc tattggacat ccaaattttg gtaaccagca accaagtgc 240
 gaatgcctta aaagaaaatc tgaatctcta tctgggtcag aagcaagggg tcattcagct 300
 gcattgggtgc aacctgctct aggaatcat aatgggagtg gaggtgcaca caagggcctt 360
 cggatggcta acgttgtaca tcgattcaag agcttagttg aatctttgga aattgggtgtt 420
 gtgctatct 429

<210> 15784

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G7

<400> 15784

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 ttttttagtcc tacttttcagg ttccggaacc tttcttgtct tccacgacgt ggcattagct 120
 aaagatctca ctgaggccaa taatgatgat tatgtacaga acatcaaact attaagaatg 180
 actgaattaa tggttcatat gtgggtttact ggatataatg tacgatttgt atatatacct 240
 acttatatta gcagata 257

<210> 15785

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G9

<400> 15785

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 agattgggct cactgttcac caagctgggc agccggctgt tcgccaagaa agtgatgcag 180
 ctctgatcgt tgggactcta cgccctcaga tacgaccaca ctacctatag tccgacactt 240
 gccgagaact atatcaacag gcgtaacttc ttctagcatg agataaccaa g 291

<210> 15786

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H10

<400> 15786

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 tcgcgacggc caccacgccg ggctgccgg agacgttcca gatagtgcgg tgcccccttcg 180
 acaagaacag ggtccggatc aaggcggcga acggctactt cgtccaggcg atagcgaccg 240
 gcgaagtgat agcggactac ggcgagccca cgcggtggtc cgacttcgac gcgtcagtgt 300

tcctgatgac caccgtcggg cagcaactgc aaggtgagta ccagctctgc aacggctacg 360
gcgccgacaa ggccgtgccg ctgctgatgg agcattggag cacgtacata atggaggacg 420

<210> 15787
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H11

<400> 15787

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caagagcgtc gtgtgccacc gccgcgtcag cgcgcgcgtt cagaatggcc ttgttgctgc 120
ccacgcgggc ggccgcggca tgggtgctgtc caacacgggc ggcaacggcc aggaacttgt 180
tgccgactcg caccttctgc cggttttcgt tttcttttat agggaaggca ccgtaatcaa 240

<210> 15788
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-011-Q1-K1-H12

<400> 15788

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tctcgttttc caactcgctg cccgttgctg gattccgccg cgtcgcgtcg cgtgtgcatt 120
tgcgcgcgcg cgcaggagcc gccgctccga tcgccctgaa aaaggtgcca attgttactg 180
attccagata taggtgttcc tgcgctggaa ctaactgcgc cgcgaccttc ctcagcaatc 240
ttatgctcat gtctcaactc caacagatgg cgaatagtaa gaagcctcct ggcctcaggt 300
tactcggagg cgccggctca ctgacaacgt accagacact agtcctggtc ctcacgttct 360
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<210> 15789
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H3

<400> 15789

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caagatgaac cttgcccaga gcataagaga cagattctgg catactactc ccttgctggc 180

aggaggacag attgtectcc atcagtaact ctgctttacc cggcattttg agtgtagata 240

cttgcttttt gccagactga atctcatggg actaagttcc attggtccca ctatctgtga 300

agtaaatggt ccctgttctt ccaattgatg aggacatgca gacgttccag tgcaaagaac 360

cccaaaggta agctttaagc aggacggcca gctctgaact gaggctagct gagaacaatc 420

atgaatacct gaaggcagca cttatgtcaa c 451

<210> 15790

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F8

<400> 15790

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ctcgcgtcgg ccgcgcgggt tgccgcgcc gtcgacgcgg aggacccgct gatccggcag 120

gtggttcccc gtggagatga caacgatctg gagctgaacg cggagtccca cttactgagc 180

ttcgtgcagc ggttcggcaa gtcttacaag gacgccgacg agcacgcgta ccggctgtcc 240

gttttcaagg ccaacctgcg ccgcgcgcgc cggcaccagc tgctggaccc gtcggcggag 300

cacggcgtca ctaagttctc cgacctcacg ccggcagagt tccgacggac ct 352

<210> 15791

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-E3

<400> 15791

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atcgcgttgt tcttctcttc tcgctcgcgt tcgccgtcgc gattgccgcc gccgtctacg 120

cggaggaccc tcttatccgg caggtgggtc ccggtgtaga tgacaactat ctggagctga 180
 acgcggagtc ccacttcctg agcttcgagc aacggttcgg caagtectac aaggacgccg 240
 acgagcacgc gtaccgtctg tccgttttca aggccaacct gcgcgcgcgc gcccggcacc 300
 agctgctgga cccgtcggcg gagcacggcg tctaactagt ctacgacctt acgccagcag 360
 aatttcgtct gacctacc 378

<210> 15792
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-E4

<400> 15792

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 cgtcgacggt ggcgagcctc tctgtcccgg tgacgacgac gaccttcgcy gcggcgggcg 180
 gcggcgacgt gctgatcgtc gtcccagagga gggcgggcgc caagcgcgtc gtctggttcc 240
 ccgcggcggc gcgcgcgggc ggcaggcggt tggtcgccgt gcggtccaac gtgccggcca 300
 cgccgacgga gatctccgac aaggtgtctg agagcatcaa gcaagcggag gagacttgcy 360
 cggacgacca gaatggcgac gccgagtgcg cggcgggcgtg agacgaggtg gatgagctca 420
 tcgccacggg cagccacgcc cgcgaca 447

<210> 15793
 <211> 332
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-011-Q1-K1-E5

<400> 15793

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 gcatgtgaaa tcagtgccag ctccagtacg tgttgtaaat gatagtgtca agtgtttcag 120
 catgcctaga gcctctaagg tggagattcc ttggcctgcc tattcaccag cggaggatcc 180

tttgcttgat aaatctaata cagaggtaat tctggagctt gaggataaag ttcattgatgg 240
 tgatgacaaa nagacaaaaa ctggttgtaa aaaggtgggt tcaccattcc caactaaagc 300
 ggncttctct gaggaatcct ttgaagcacg gg 332

<210> 15794
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-E6

<400> 15794

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 cacttggacg ttaaggtgtt gcaccattta caagccatgc taatgatatg aaggtgacga 180
 ttattagggg tggtcactag tacagtcate ctgctatata tacccttttc ccccatgga 240
 gctagctgat agacatgcct tcct 264

<210> 15795
 <211> 451
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-011-Q1-K1-E7

<400> 15795

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 cgggtggagat gacaacgatc tggagctgaa cgcggagtcc cacttcctga gcttcgtgca 180
 gcggttcggc aagtcctaca aggacgccga cgagcacgcg taccggctgt ccgttttcaa 240
 ggccaacctg cgccgcgcgc gccggcacca gctgctggac ccgtcggcgc agcacggcgt 300
 cactaagttc tccgacctca cgccggcaga gttccgcgcg acctacctcg gcctccgcaa 360
 gtcccggcgc gctctctca gagaactcgc ngagtcggcg cagagggcgc ccgtgctccc 420
 caccgatggg ctccccgacg atttcgactg g 451

<210> 15796
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-011-Q1-K1-E8

 <400> 15796

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 ccgtccaagg taatccacat ccgcaacgtc gggcacgaga ttgccgagtc tgatctcctt 180
 cagctgctgc agccgttcgg catggtctcc aagatcgtca tgttgctgct caagaaccaa 240
 gctcttctgc agatggaaga cctccatgct tccgtgagcg cgctgcaata ttacacttct 300
 gttcaacctt gcataagggg aaggaatgta tacatgcagt tctcatctca ccaagagctt 360
 accactgacc agagctctca tggaagggat tctgatcaag ggtccgaacc caaccgaata 420
 cttttagtta ctatccacca tatgatctat 450

<210> 15797
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-011-Q1-K1-F1

 <400> 15797

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 aggtcatgac gacgtggac atctctctgt cgcactcgcc cgacgaggag tacatggggg 180
 agttcgcgga gccgtcgtgg ctggcggagc ccatggtgaa ggcggcggtc gagaagttcg 240
 gcggcaggat gaatgagatc gacgggttca tcgacgagtg caacaacaac ctggacctca 300
 agaaccgctg cggcgtcggg atcgtgccgt acgaactgct gaagcaccta tctaagcctg 360
 ca 362

<210> 15798
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F10

<400> 15798

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tccgcggcct catcgccgag aagaattgcg ccccgctcat gctccgcctc gcatggcact 180
ccgcgggcac cttcgatgtg gccacaaaaa ccggggggccc cttcggcacc atgaagaacc 240
ccgccgagca agcgcacgga gccaacgccg gactggaaat tgccatcagg ctgctagagc 300
ccatcaagga gcagttcccc atcctatcct acgctgactt ctaccagctt gctggagtcg 360
tggcagtcga ggtaaccggc ggacctgatg tccccctcca ccctggga 408

<210> 15799

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F11

<400> 15799

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atcgttgacg gcagccgtct ggacctcctg ttctaggtgt tcacgtcctg attctcctg 120
gtgaatcttt acatgcggta ggaatcggat cgacacacca acatcttcga caccatcagc 180
acgcaccttt gtttcggcac acatcgcaag tgactaccgg tcaagagaca ggtgtcgctg 240
atcacttacc ttcgaggtaa tcgttcaatg atgacatcaa accttcaca aatcctccat 300
attattgacg tcatccaatt gatttaactg ctcacggaaa ttact 345

<210> 15800

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F12

<400> 15800

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ctgcgttctg cgcgtcgact cgtccttgcg agggcgggcg cagcgccggc gccgggcat 180
ggccccgagg acgagtgggg gccggagccc gagggcggtt ccgctgtcac gggggccgcg 240
gtggcgagg cgcggaggc gagagaggtc gcggagctca aggcgcagct aaaggacgcg 300
ctgtacggca cggagcgggg cctgcggggc ttcagcgagt cacgagccaa agtgctggag 360
ctcatcacgc agctcgagac gcgcaacccc acgccggctc ctacggaggc gcttacgctc 420
cttaacggga agt 433

<210> 15801
<211> 449
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-011-Q1-K1-F2
<400> 15801

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actatggagg aatcataata cagatatacct aacataagac acgtgatcaa gaactctgat 180
ctacttacac tactgcacca gtcagtatgt tctctaacat cagttatcat gattagcagg 240
aactaagata ctatgagact tgaagacgta catgcattcc ttatcatgct aggatattac 300
acttatgttc aacgtagcat aatgagaagg aatgtataca tgcaattctc atcttaacaa 360
gagcttacca ctgaccagag ctctcatgga aggaattctg atcatgggtt cgaacctaac 420
ctaatacttt tagttactat tcaccatat 449

<210> 15802
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-011-Q1-K1-F3
<400> 15802

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ttcgacaagg atggcaagaa ggctgcagct gcaggcttct tcaagtcctt caacaaggag 180

gagattggca aggagattga ggagaagaag gcagaactgg agcccaaggt tgcgaggct 240
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 agcaagaaga actcgactgc agttaccaag ttcctcgatg agctggctaa gattgacttc 360
 cctggagcca aggtggtgag cgaggcggtg gccaaagtccg gcgcctcgcc cctgtctccg 420
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<210> 15803
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-011-Q1-K1-F4

<400> 15803

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 acccgcgcaa gcgccacctc gacgcctccc ccttcccccg ccacttccac ggcccgcaga 180
 gccaaaccgg cctaagccag cgccaccgcc gccggttctt cttgccgcta ccaccgaagg 240
 cgcggtcctt cgcttccgac atgggaaatc acatgtccag tgccttcggt tggcccagtg 300
 atgacgggcg ggggctcctc tgttgctgga tcggcaaggc gcgggggtctc acggtggcca 360
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<210> 15804
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F6

<400> 15804

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 aaccgcgca agcgccacct ttacgcctcc ccccttcccc gccattcca cggcccgcag 180
 agccaaaccc gcctaagcca gcgccaccgt cgccggttct tcttgccgct accaccgaag 240

gcgcggtcct tcgcttccga catgggaaat cacatgttca gtgccttcgg ttggcccagt 300
 gatgaccggc gggggctcct ctgttgctgg atcggcaagg ctcggggctc cacggtggcc 360
 atggatg 367

<210> 15805
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-011-Q1-K1-F7

<400> 15805

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 eggctttgcy gtgggcgctc acgaaccttg ccaggaacgg cgacaggctc atactcatcc 180
 acgtgaacag ctctgccag aacgagcggn gcgccgttca tctctgggag cagagtgggt 240
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 acaaggagac gatcgagatc ctnactcaag cggcaaacca tagagggatc gaagtctttg 360
 caaagggtgt ctacggcgac ccagcanaga agctctacga agcagccgac ctgggtccgc 420
 ttagctgcat ggctgctcggg ag 442

<210> 15806
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-E2

<400> 15806

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 tagacacaac ctaacaaggc gctgccagtt ttctccacta caaattattg accagacttg 180
 gacgttaggg tgctgcacca ttgacaagcc atgcgaatga gatgaagggtg atgatgatga 240
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tagtggatcg ggtcaggggtt gaacttgaga gactccttcc agatgagctc ctttatagct 420
tcttcggtga gcgatggctg ct 442

<210> 15807
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C7

<400> 15807

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ctgactggtc agtggaatct gtatgccac aatcctgatt cgagtactca tttatttggt 180
accactcaag gagctggtag tgccattgct acctcttttg gtggactcca tccacttaca 240
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<210> 15808
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C9

<400> 15808

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agccgcggcg agtgacagca tgtccatcgt catctacggc gagcggagct aggaggatgc 180
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ttg 363

<210> 15809
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-011-Q1-K1-D10

<400> 15809

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 gctactcatt atagggattt cgacaaaacg aatttattca tcactaaagc cgaagtcagt 180
 aggagtacta ttatgaaaaa attcagacct cgagctcgag gacgtagtta ttctataaaa 240
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 gatcaatcta agatttcgat tcccagtaaa aaaaaaagaa atataataga aaaatatggg 360
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 gttcgcac 428

<210> 15810
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-D12

<400> 15810

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 ctccctgacg cgacgtcttc ctacttcgac acgtctctcc ccgacggcga gctgaagacg 180
 gtgacgggtcc gcgacctcac cgcggggaag aaggtggtgc tcttcgccgt gcccggcgcg 240
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 cgcgccaagg gcgtcgacac cgtggcctgc gtctccgtca acgacgcctt cgtgatgcgc 360
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<210> 15811
 <211> 374
 <212> DNA

<223> Clone ID: LIB3060-011-Q1-K1-D4

<400> 15813

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gtcttccgcg atttccgcgc gcgccgagcc ggcacgtca aggcgctcac cacggatgtg 180
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<210> 15814

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-D5

<400> 15814

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ggacctgccg gagtccgtcg actggagggc caagggcgcc gtcgccgagg tcaaggacca 180
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tgggcggaat cgacaccgag aaagattacc cttacaaggg cacggacgga cgggtgtgatg 420
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<210> 15815

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-D6

<400> 15815

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acacgcgctc acccgaggac gtcttccgac gatttccgcg cgcgccgagc cgacatcgtc 180
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ccttctgagc ttccataacc agcactgtag ataaactttg cccgtgatgg aatggtcgaa 360
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<210> 15816

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-D8

<400> 15816

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tgcagcggtt cggcaagtcc tacaaggacg ccgacgagca cgcgtaccgg ctgtccgttt 240
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gcgtcactaa gttctccgac ctcacgccgg cagagttccg ccggacctac ctcggcctcc 360
gcaagtcccg gcgcgtctc ctcagagaac tcgngagtc ggcgcacgag gcgcccgtgc 420
tccccaccga tggctctccc gacgatt 447

<210> 15817

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-E1

<400> 15817

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 caccctccat tcgccgcgca ccgcgacccg accacggggc gcacctaagc gcgcggcgca 180
 caggacgaca agtgccctccc cgtccagtac ctcgaggcga tccggggcct gcaggccgcg 240
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 gcggatgggt tcgacaagtt cgcccgatcg gaggagtcc gcgccctcaa catcgggttt 360
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 ctggtgtgga ggctcgtcgt 440

<210> 15818
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-E11

<400> 15818

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 aaaatgttct ctggctttta gtctctgtag attatacctt ggcaatgtag gtattcaagt 120
 gctgtgacca cttctgcagc atagaacctg accgcacctt cttcagAAC cttcataggt 180
 tgcctatcaa ggagcataaa gagttcccca ccagcacaat agtcaacaat aagacatata 240
 tgtgtctttg tctgaaatga tgcatacaat gtcggaagga atgggtgggc caacatatca 300
 aggatttgct gttcagcggg agctctatgg accttgtttc ggttaagcat gacactttta 360
 tccatagctt tcatggcaaa gtattcacct gtgccaagca acttcaccaa atggacactg 420
 ccagtatcac caga 434

<210> 15819
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-E12

<400> 15819

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 gaggggacga tgggtggcctg cacgctgctg cttaccgctg gtctttggat cttttgaggc 120
 atgctgaatg tggatgccgt ttctgcagca attcttggcc taacaatcct cttaatctca 180
 agggttgtca catggaaaga atgtttggca gaatctgtgg cgtgggatac cttacatgg 240
 tttgcagcac ttatagcaat ggctggctac cttaacaaaa tcgggctgat ctcttgggtc 300
 aatgagactg ttgtgaaatt tgttgaagg cttggcatgt catggcaact ctcatcgggt 360
 gtgctggtgc ttctgtactt ttacttgac 390

<210> 15820

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B2

<400> 15820

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 ttccgatcag aagaaaccag taccgaagga gcagagagca aaggcagctg gcactcctcc 120
 aaaaccaaag gccaaagata tgaaggggag tcaagagaaa aagccacaac cacaacagaa 180
 agtgcctcct ccggttagcg catgaagctt cctgctgcga aaatgggttac tgatcatgta 240
 agatacatct tgtgaagtta tctcatgttc aacactcatg cttgtatggt tttgatattt 300
 ggtttatggt gttatgggac gaggggtgcc caatctagaa tgtgcttggt ttgagcgatt 360
 gcgcacgcac aacataattg gtgagaattg gttttg 396

<210> 15821

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B4

<400> 15821

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 aggataagat agcaaata tggccatcat actcgtaga gcagcgtagc cggggctctc 120
 cgccgccgac agcatcagcc accaggggac tctccagtgc tccaccctgc tcaagacgaa 180

gagggccggcg gcgcgccggt ggatgccctg ctcgctcctt ggcctccacc cgtgggagggc 240
 tggccgtccc tccccgccg tctactccag cctcgccgtc aaccggcg gagaggccgt 300
 cgtctcgtcc gagcagaagg tctacgacgt cgtgctcaag caagccgcat tgctcaaacg 360
 ccagctgcgc acgccggtcc tcgacgccag gcccaggac atggacatgc cacgcaacgg 420
 gctcaaggaa gcctacgacc gctgcggcga gatctgt 457

<210> 15822

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B5

<400> 15822

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 ctctccgcc ggcgggatgg acagcctcag gggagccaag ttgccggcg tgccgaaggg 120
 cgggagtgcg ctcgtgaagg tggcgctgct cggcgcgcg gggctctacg ccgtcctcaa 180
 cagcttctac aacgtcgagg gcggacaccg cgccatcgtc ttcaaccgcc tcgaggggat 240
 caaggacaag gtgtaccccg aaggaaactca cctgatgatc ccgtggatcg aaaggccgat 300
 catctacgac gtccgcgcc gacccaacct cgtcgagagc acctccggaa gccgcgacct 360
 ccagatgggtg agaattgggtc ttcgtgtcct tactcgacct atgccagacc agctacctaa 420
 aatctacagg aacttg 436

<210> 15823

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B6

<400> 15823

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 ggttttgatt atctaagaga taaccttgca atgactgtag atgaacttgt cttgaggaac 120
 ttcaattact gtgtgataga tgaagttgat tcaatcctta ttgatgaagc aagaacacct 180
 cttataatat caggcctagc tgaaaagcca agtgatcggc attacaaagc agcaaaaata 240

gctgaagctt ttgagcgaga cattcattac acggtggatg aaaagcagag aaacgtttta 300
 cttacagaag aaggttatgc tgatgctgaa gaaatactgg acatagatga tctgtacgat 360
 cctcgtgaac agtgggcttc gtatattcta aatgcaatca aggctaagga gctctttctt 420
 aaagatgtc 429

<210> 15824
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-011-Q1-K1-B7
 <400> 15824

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 cggcgtcttc gaccgccgcc aacccccacc agctctgccg gtcccgcgct gcgctgggca 120
 agccagtga ggggcttggc ctggggatgg ggcggtagcg cgcaagccag cggagcatca 180
 cgtgccaggc ggcgagcagc atccccgccg accgcgtccc cgacatggag aagcggaagc 240
 tgatgaacct actcctctg ggcgccatat cgctgccac cgtcggcatg gtcgaccact 300
 acggcgctt cttcgtcccc gccggctccg ggaacggcgg cagcgggacc tacgccaagg 360
 acaagctggg caacgacatc acggtggagg agtgggtcaa cacgcacggt cccaacgacc 420
 gtacgtcgc gcaagggc 438

<210> 15825
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-011-Q1-K1-B8
 <400> 15825

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 ttggatttaa agctggtggt aaggattata aattgactta ctacaccccg gagtacgaaa 120
 ccaaggatac tgatatcttg gcagcattcc gagtaactcc tcagctcggg gttccgcctg 180
 aagaagcagg agctgcagta gctgcggaat cttctactgg tacatggaca actgtttgga 240
 ctgatggact taccagtctt gatcgttaca aaggacgatg ctatcacatc gagccccgtc 300

ctggggaccc agatcaatat atctgttatg tagcttatcc attagaccta tttgaagagg 360
 gttctgttac taacatgttt acttccattg tgggtaacgt atttggtttc aaagccttac 420
 gcgctctacg tttggaggat ctacgaattc 450

<210> 15826
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B9

<400> 15826

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 acgagcaacg acgaccatgg cgacgatggc cgcttcttcc tgccacgggc aacttctcct 120
 gtttctcctc gtggccgtcg cgctggcctg cctcggtccc gcggcagcgc atcaagccgg 180
 atctggagag ggctacacga tcgctggccg cgtcaagatc gatggcatga gcgtgaaggg 240
 ctttgggtctt gcaacaaaga catcaaacac aaaagtgata cttaatggcg gccagaggggt 300
 tacatttgcc aggccagacg gctactttgc attccacaac gtgccagctg gaactcatct 360
 gattgaggtc tcctcaattg gttacttctt ttccccagtt cgagtagata tcagtgcgaag 420

<210> 15827
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C1

<400> 15827

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 gagcggcctc cgctgcgacg gcaacggcgt gggagggcca tggcggcccc cgcgctcgcc 180
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 ccatcttgcc ctgatggttg gcaaggcggc cctgttcaga acagatgctt catgtacata 300
 tcagcctccc tttcttggga tagatccgag gctgtctgcc ataactacag cgggcatctt 360
 gctgcagtat catcagtgca ggagctaaac ttcgtgaagt ctctctgtgg atcatcatcc 420

acaggatgct gggttggagg gcatcactac agc

453

<210> 15828

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C10

<400> 15828

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cctggggaga atacaacacc acctttggag tctcatgcac ggttttgtct ctactttagc 120

atctgctgat cttagactaa ctcatattatt aactgatctg tatctactgg aagcccatc 180

tgaagttgat agattggcta ctagatttta ttaaagccaa ctggactgtt gcaactacaa 240

ttcatagaga taaaacactg tatatgcaat ttaaaccggt acggatttaa gcctaataa 300

caggcttaga cctttatctt tctgttaaaa atgtactact aataacctac atatctacat 360

acaattacac ctcttctctt c 381

<210> 15829

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-C12

<400> 15829

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cctgcgctcc tccgacacct gggtcgccga gtacaggaag tggatggaca gggcgggcca 120

cggcatgccc tactacttcg gccacagcac cctgtcgccg ccgcccgtgc cggccgtcgt 180

ggagcaggcg cccgcagggg ccgtcgcggg gatctcgccc tcgttcccgg ccaagggcgg 240

cgtcggcatg gtgcacgcgc ccaacccgac caacaggtac ttccgccacg tcgtgcactg 300

caagggttgc agggcaaccg tcaaaaagta cacctcgttg aagaccgtgt tcgcggccct 360

cgcggcggcg gccctatcgg ccgncatcct ggcg 394

<210> 15830

<211> 448

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-011-Q1-K1-C2

 <400> 15830

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 aggctgcggt tactgaccac agctttcgac cttttccagt ggagggaaacg gggttagcga 120
 gcggcctccg ttgcgacggc aacggcgtgg gagggccatg gcggcccccg cgctcgctt 180
 ccccatgttg ctggctgcct cactgctctc cgtcgccgat cctgcgctgg ctgaagccc 240
 atcttgccct gatggttggc aaggcggccc tggtcagaac agatgcttca tgtacatatc 300
 agcctccctt tcttgggata gatccgaggc tgtctgccat aactacagcg ggcatcttgc 360
 tgcagtatca tcagtccagg agctaaactt cgtgaagtct ctctgtggat catcatccac 420
 aggatgctgg gttggagggc atcactac 448

<210> 15831
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-011-Q1-K1-B12

 <400> 15831

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 ggcggtctcc tccacggcga tggccggtac ccccatcaag gtgggctcct tcggcgaggg 120
 ccgcatcacc atgcgcaaga ccgtgggcaa gcccaagggtg gcggcgctccg gcagcccctg 180
 gtacggcccc gaccgcgtca agtacctcgg ccccttctcc ggcgagcccc cgagctacct 240
 caccggcgag ttccccggcg actacggctg ggacaccggc gggctgtccg ccgacccccga 300
 gaccttcgcc aagaaccgcg agctggaagt gatccactcc cgatgggcca tgctcggcgc 360
 gctcggtgc gtcttccccg agctgctctc ccgcaacggc gtcaagttct gcgaggccgt 420
 ctggttc 427

<210> 15832
 <211> 426
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H7

<400> 15832

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catcacggtg cgcacacctg ccacgcaggg cacctgccag gtccccttct cctacacgca 120
ggaggatatt ttgactaccg gggagaagaa ggtcaccaag tatgacgatg gcatcttccg 180
tggagtcaac agctttgggt tcaagtccga ggtcacccag aggaagatca atggcgaatg 240
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tatctatata tgcacataa attcagccac gtacgctacc atctgcatat atgtcagtat 360
aggtggcgca tgtattgctt ttaataattg gtgtcatcta agccatgcaa gcatgtgtgc 420
tttata 426

<210> 15833

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H8

<400> 15833

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gcccggttca attaaggatt ggatgcgtat gtaggcctgt tgatcaagga ctatcttata 120
tagccacatg ccctgagaat gggacagggt aagcttgaac ccggctattc catacatgaa 180
aagacaatcg cgcactgggc gtggagagat ggcgagagtg gcacgtaccc tcctggcaac 240
ggatcgccca aaagggttgg tgtactctcg ggtggcgagg acctgttcat gcagtggagg 300
atccgtggga atagtagaca tcaaggttta cgagaaacat atgtcgtgtg gttagagatc 360
cttagctgag taaatcgatt cggatcgccg ttatatcccc ggacagtgga gacttgagct 420
ccgacctaca accta 435

<210> 15834

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H9

<400> 15834

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agaaatcaag cactccagca ttatcctcca cttgcagtag tatccagcag gggcagtgt 120
cacatttcaa agatattcag ggtcatttat catctaaagg gcacaaagtc ccaaccattt 180
acttttgaag aggtcgggtct tcattgttgc ctagtggttc atcagcagat cctactcctgc 240
ttaatttatg taaaacgatg gagggccaga gccagcatag ctccgaagat aatatatcat 300
ctggtcggtt tcagctaata aaggaggatt tgataaatgc aacggttgac gcgagtgaca 360
tttttgagtc atttgatagt tgcccatatt atctaagtga tcatacaaaa tgtgccctca 420
tgtcatca 428

<210> 15835

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A1

<400> 15835

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aagcagagaa ggacaggtat tgcgtatata gcaaactcgc cggtgcggaa ggaggagcga 180
cggaaaggga tcgcgaagat gttgggtcaa gaagcagagg ctcgggcaag gagctgggga 240
tgccggtcga tggcactgca ctgcgacgta aacaactggg ccgcgctacg cctgtacaga 300
aaccaaggct tcaagtgcac acgagtgccg gaaggagcta aatggcccga acccaagata 360
gctaaaggag cggagtacaa cttcatgatg aagctagtgc ccaaggcttg agtcttgaac 420
cttataagat ctgactaggg aaaaa 445

<210> 15836

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A11

<400> 15836

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cggaggacgc accgtacgat cgtcgtcaac atcgtcttct cggatgacac caagcttgcg 120

atcgtcgggc tcgcgctcgc cgggcatccg ctcatctggg cagccgtcct cgcggacgtc 180

tgcacatgca tgctggtgat catgtacagc atgctgctgc tgagatcgga ctcgaacggg 240

cgccggaagg tgaagaagtg ctgtgcctcg tcgcaacatg ggtcacactc acacgccagg 300

aagaagcatt gtgtctccca ccaactgttca gatggcccggt gcaacaagtt gacggcaggc 360

tgtttccagg aatcgccgac tgctggtaag catgccttgc atgatcat 408

<210> 15837

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A12

<400> 15837

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cgtgaacgag aagattggcg tcaaggaatc cgacacgggt ctgcgcctc cccatctttg 120

ggatgttgcc gccgaccggc aacgaatggc cgaagaacag ccgctccaag tggctcggtg 180

cacaaagatt attcaggatg agaaagattc cgacaagagc aaatatgtga tcaacgtgaa 240

acagatcgcc aagttcgtag tgaacctggg agagcgcgtc agccaacgg atatcgaaga 300

aggcatgcga gttggtgtcg accggaacaa gtaccaaatt atgctaccac tcccgcctaa 360

aatcgatccc agtgttacga tgatgacgggt cgaggacaag cccgatgtca cttatgggtga 420

cgtgggt 427

<210> 15838

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-A2

<400> 15838

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gcgagcagca ccatggccct ctctccacg gccttcgccg gcaaggccgt gaacgtgccg 120
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 ccggcggcgg cgtccgggag cccgtggtac ggccccgacc gcgtgctgta cctgggcca 240
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 caccgcgng ctgtcggcgg acccgagac gttcgccaag aaccgggagc tggagtgat 360
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 caacggcgtc aagttcggc 439

<210> 15839
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-011-Q1-K1-A3
 <400> 15839

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 ccgtcaacgt aacccttttag ctattccctc ttgaccatgc acaacacagc tcatgaacgc 180
 caagccggcc ttacaatccg gtaaccctg atacgttccc cacctcaagc tgtacctggg 240
 cccactgtct ttcgagcttg gcgagctacc tgacaaacga cttcccggac gactactgct 300
 aatacaccca catgctgaat gtcgaccgg agacgttctc caataaccaa tagcttgaag 360
 tgatccactc tcgatgggtc atgctg 386

<210> 15840
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-011-Q1-K1-A4
 <400> 15840

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 gctcgacatg accctcgatg acatcatcaa gaacaacagg acgagtaacc cctcctccgg 180

cggggcccga cgcagccgcc gcggtatcgc ccctggcggc ggcagccgcg gagtcggggc 240
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ccctgacgct gcgtggcagc acgacatgta ccctgcggtc gccgcaagaa gccggcgggc 360
gccggagggt ctcggcgctc gagacgggca ccaagctcta catcttccac cttggaactt 420
ggggtttcga acgacgatat caaggag 447

<210> 15841
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-011-Q1-K1-A6

<400> 15841

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cagccccccg agatctgctc cgcgcgagca gccatggcgg agacgctcga catgaccctc 120
gatgacatca tcaagaacaa caagaagagt aaccctctct ccggcggggc ccgccgcagc 180
cgcggcggat ccgcccctgg cggcggcagc ggcggggtcg ggccgaccag gcgctccttc 240
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cagcacgaca tgtaccctgc ggtcgccgca ggaggcggcg gcggcgggag ggtctcggcg 360
ctcgagacgg gcaccaagct ctacatctcc aacctggact ntgggggtttc gaacgacgat 420
atcaaggagc tgggtctctga gctaggtgat ctg 453

<210> 15842
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A7

<400> 15842

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tggttgact cgccgaagta tccctaacag tcaccgcatg agcgtccaac tcatgattaa 120
cagactcaaa cccaatccgc cctgttaccg accgcgcggc ctcagagctc gagtacacgg 180

tcttcgccgc gctagggcgc acccgcgacg cactacgcta tgcacgctta ggtctgagat 240
acggcaagag ctataacagc ccggaaaagg tccacacgct gctcaggat 289

<210> 15843
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A8

<400> 15843

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tattgttagc aaaatgatga tgcataaaga gcttcaggct agctggcacc agccaacaaa 120
gtgcaccgtg tttcacagcc tggatcaaac caggcttcag gagctactct tccagggtgc 180
agaaaaaata tcggctcctgg tggagacaaa cgagagggca tacgagttaa gaactggtgg 240
tactcttgaa gggctaccgt ccaggcgcat gggcgaggct caggattcat ccaagtggca 300
ggagagcttt gtgcgcatcac agggggcggca ggggtggtggc aaccggtttg gatactccgg 360
tagaagtgca gcatctggtc aaagtgggtg actccagagg ggcaagggca atcatgtttc 420
ccgcggtgga tacggtggca atacacgatt tt 452

<210> 15844
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-011-Q1-K1-B1

<400> 15844

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cgagatggcc ccacgcgcgc tgctcgctc cgccgctcgc gccctcgcg ccaccgcccgc 120
cgcggccaac tccggttcg cggaactcgaa cccgatccgc cccgtcaccg accgcgcggc 180
ctccgcgctc gagtcacag tcttcgccgc gctcggccgc acccgcgacg cgctccgctt 240
cgcacgcttc gctgtgaggt acggcaagag ctacgagagc gcggcgagg tccacaagcg 300
gttcaggatc ttctccgaga gtctccagct cgtccgctcc accaatcgga aaggcctctc 360
ctaccgnct cgcataaacc gtttcgcgga catgagctgg gaggagtcc gtgcgacccg 420

gctcggcgc

429

<210> 15845
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-011-Q1-K1-B10

<400> 15845

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tgctgctaag aagcagcgag caagtccaat ggcaaaacag ccagcagggga tcaagaaggt 120
tagcggaact cggggaaaga aaaaaccaa ggtggggagaa gatgaaatcg aagagctctc 180
aagttcctcc caggataacg acgcagatga tgatagtac gaggactggg ccgaataatg 240
cgatggtaca gacgacggat aggttggggc gttggggaag catatgcata attgatgtgc 300
ggctgaagag aaggatggat tgggggatgg cacagaaact gcctgttttc atggactggt 360
ttggctggtc atgtctgacg acggatctag aatatggaat atcctgatct gntgtcaagc 420
tg 422

<210> 15846
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B11

<400> 15846

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tggcggcaac cggaatgtcc cctccccct cggccgcaat aactcgccac atccatgctc 120
gtcgttcctg tgctgctgct tccttgtecc tccgccgctc gggcttctg gggcgcgctg 180
tgctggccgc ggtgccagtg gccgtggacg ccacccggcg ccgccgctc tccgtgtcgg 240
tgcggtggc ctgggacggc ccgctctcgt cgggtgcgct catcatgcag agcaggaacg 300
cgaagctgag cgagaagctc aaggagcaca tcgaggacaa agtgggtcgg gcggtgtcca 360
agcaactgcca cctgggtccg gaggtggacg tgcgcc 396

<210> 15847
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-010-Q1-K1-H4

 <400> 15847

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 ttgccacccg cgaagcgaag agaggatgcc agcggctatc gcactgtatc aggcagtgtc 120
 ttgcctgtgt agttttgtac tgaagttgtg aacgattagc ttcattgtgt ctgtttaaac 180
 caccgtcact ttaattcatc gcgttcggct gcacgtggtc gttgatgacg acacgatcag 240
 aaaccgttga tgacaacatg atcagaagtt gtgaaaaaaaa aactgtcatg caatggaa 298

<210> 15848.
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-010-Q1-K1-F6

 <400> 15848

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 tgttgctcgc ttgtttctgg gtcctgtcaa catgctcctt gctacttgat gcttcctccg 120
 atggactgtt aagaatcaac ctgaacaaga agagactgga caatgaagct ttgactgctg 180
 ctaaattggc gaagaaggag agccaccttc gaaggtctgt gggtgctgac cagtatctca 240
 gtgcctcaac tgatgacata gtcccttttg acaactacct ggacaccag tactttggac 300
 agatcagcat cggcacgcca ccacagaact tcacagtgat attcgacact ggaagctcca 360
 acttgtgggt tccctcatcc aagtgtact ttctgatagc gtgctactta caccataaat 420
 acaagtcaac c 431

<210> 15849
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-010-Q1-K1-F7

<400> 15849

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ggcaaggcag atctagggcg atcatggctt acgtcgagag aggtgttggtg aaagacaaat 120

ggactatatg gcgactgagc ataatctcag acttcttctg ggccattgtg agctatatca 180

gaatcttctt tgacacactg ttctcattgg acaaaactga caacttcaag aaaggggtatg 240

gtgctggtaa gaagtgggat ggtggacctg gtgattgtta gcggatccca 290

<210> 15850

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F8

<400> 15850

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acttcgcgcg ggagcgcac cccgagcgcg tggcgcacgc gcgcggggcc tccgccaagg 120

gcttcttcga gtgcacccac gacgtgacgt cgctgacgtg cgcgcgactt ctgcgcgcgc 180

ccggcgtgcg gacgcccgtg atcgtgcgct tctcgacggt gatccacgag cgggggtccc 240

cggagacgat ccgcgacccg cgcgggttcg ccgtgaagtt ctacacccgc gagggcaact 300

gggacctgct gggcaacaac ttccccgtct tcttcacccg cgacggcatc aagttccccg 360

acgtgatcca cgcgttcaag cccaaccggt ggtcgcacgt gcaggagtac tggcgcgtgt 420

tcgacttcct g 431

<210> 15851

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F9

<400> 15851

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ctgccctcgc cgtccctcc gccgggtgcc acgacgaccc gccggtgcc gcgcgcgcgc 180

gcggcgccat gcagcgccgt acaccttccc gcggcgccca cgcgtcgggtg cggcggtcac 240
 gcgcgcccgc ggcccgtgcc ggccctcgcc ctccgaggtc gaagtgcac aacaggtggc 300
 tgaagctgac catgtggtgg acagcaacat gctgccctac tgcagtcata accgcaagtg 360
 agaaaatcag catcga 376

<210> 15852
 <211> 162
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-G1
 <400> 15852

cgaactctca cgccctgaca aaaccgtcct tcatttatac gcacccacca gatgaaaagg 60
 gccaaagcca aaaggcatta ccgcccgcac aactatggca gctcgcctcc aagccgtggc 120
 caccctgatg caagcggcct agatcggcgg tcgggcgccc tt 162

<210> 15853
 <211> 315
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-G4
 <400> 15853

ataacaataa gcgtgaacca tggcggacga gtacggccgc agcgggtacg gcaggtccgg 60
 cgccggcgac gactacgaca ggcgctacaa cagcaagtcc ggcactgatg actacggccg 120
 tggcgaaggt ggctacaaca agtcggggcg cgatgacgac tacggccgca gcggcggcga 180
 tgggtacggc aggtccggcg gcgacgacta cggccgtggc accggcggcg gtggctacaa 240
 caagtccggc ggccggcgatg actacggccg tagcggcggc gacgactacc ggcgtggcac 300
 cggccgtggc gggtg 315

<210> 15854
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-G5

<400> 15854

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gagagagaga tcgagaggta tacgtaggcc cgccggcaac taactaacat gtcgtcgctcg 120

tccgggacga cgatgccgct ggcgtaccag acgtcggcgt cgtctcccga gtggctgaac 180

aagggcgaca acgcgtggca gctgacggcg gcgacgctgg tggggctgca gagcttcccg 240

ggctctggtg tctgtacgg cggcgtggtg aagaagaagt gggccgtgaa ctccggccttc 300

atggcgctgt acgcgttcgc ggcggtgtgg atctgctggg tgacctgggc ctacaacatg 360

tccttcggcg acaggctgct gccgctgtgg ggcaaggcgc ggccggcgct gagccagggc 420

<210> 15855

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G7

<400> 15855

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ttcggcgaaa acatcataac cttttcttcc ccaacaacgc atactcttag ctagggtttc 180

aacgcattctg tcgacgggag ctagggcgtc gccgccgtca atgtcgcggc actcccactc 240

tttttcgtca accgcattga gcggagggcc acctgtgtcg ccgctttctt gcatttggtt 300

tgcttcgcat ttggaacagg taacggtcca tcatctccat atgacctcct tgtatcctcc 360

ttcgttccgt gatgacggca tacaaactga ataagattct gtatttcgaa tacgattctg 420

gag 423

<210> 15856

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H1

<400> 15856

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cgtgccgata taatccaatc gaaaccgcca cactgtttgc cgccagcccg ctagtaacct 120
gcttaattta ggcatacgtg agactctgag agaaggtact gaccacacaa gggaggccac 180
tcccgcgccg ttcgtccgcg tcgtcgccga tccgtacgca actcccgatga tccgatccgg 240
acgtacggcc gctctctctc cgggctagct ggcgatcgcc gactgcatgg ggccggcggt 300
cggcgacggc gaccgcggcc ccggcgccgc ggcggagcac aaggtgaacc tgtcggcgcg 360
gcagccgttc gtggagtcgg tgcggacgtg cctgcccag acgtttttcc ccgacgac 418

<210> 15857
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H10

<400> 15857

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caccttccgt cgtctccatc cccttccatt tccggcgagg gtcaaagcag gcctcttgct 120
cttgggggtg gtttgagaga gggagagaa atggccgcgg cggcgggtgtt ggtggtgctc 180
acggtgtcag cgctggcggg ggcagcggcc ggcggtgata tcgtccacca cgatgacgag 240
gcaccaaga tccctggatg ctccaacgat tttatcctgg taaaagtga aagctgggtc 300
aatggcaaag aggggtggcg gtttggtggc gtcggtgctc ggtttggtcc aaaaatcgct 360
tccaaggaga agcacgcaaa ccgaactaaa ctcacgtgg cagaccctat ggactgctgc 420
tcttc 425

<210> 15858
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-010-Q1-K1-F3

<400> 15858

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ggcgatcat ggcttacgtc gagagaggtg ttgtgaaaga caaatggact atatggcgac 120
tgagcataat ctcagacttc ttctgggcca ttgtgagctt tatcagaatc ttctttgaca 180

cactgttctc attggacaaa actgacaact tcaagaaagg gtatggtgct ggtaagaagt 240
 gggatggtgg acctggtggt ggtgggcggg gcccatatgg cggaggagga ggtggaggat 300
 tcggcggcgg aggtggaagt ggttcacggn gtctctgcac tctatctgac atccaatcca 360
 atgaccacag ttctctccct gcttgtggat cctgctgtgg ctaataagcg tgcaaccggt 420
 ccgcctgat 429

<210> 15859
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H11

<400> 15859
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 cgggcaatgt tcctgaagaa actagagcga aacacaaagg gttttctgag tgggatacgg 120
 gtattacctc aaaagaccac caccgatcg ttcagattct gatagatggg aaagacaagg 180
 ctgtagctga caacgaaggc aatgtgctgc cgacgctggt gtacgtggca cgagagaaga 240
 ggcctcagta ccaccacaac ttcaaagccg gggcgatgaa cgctctgac cgagtatcgt 300
 ccgtgataag caacagccct atcatcctga acgtggactg cgacatgtat tccaacaaca 360
 gcgacacgat cagagacgcg ctgtgcttct tcctcgacga ,agaaacgggc cacaggatcg 420
 cgttcgtgca g 431

<210> 15860
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H3

<400> 15860
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 acgcggacgc ctacacggta cgccgccatc gccatggctg cccagttctg tacaaccatt 120
 gtcctctcgt gacattccat agaggactga cagc 154

<210> 15861
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D4

<400> 15861

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ggtagggctcc ttccggcgagg gccgcacac catgcgcaag accgtgggca agcccaaggt 120
ggcggcgctcc ggcagccctt ggtactgccc cgaccgcgtc aagtacctcg gtccctactc 180
cggcgagccc ccgagctacc tcaccggcga gatccccggc gactacggct gggacaccgt 240
cggctctgtcc gtgcaccccg agaccttcgc caagaaccgc cagctggagg tgatccactc 300
ccgctggggc atgctcggcg cgctcggctg cgtgttgccc gagctgctct accgcaacgg 360
catgaagatc agcgaggacg tctggttc 388

<210> 15862
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D5

<400> 15862

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ggcgtcatcc cagcccttgt agacttatca gtgcagtga acacactgtg gcatgggatt 120
gtcgggtcaa gttgcttcag cttctgagga actttaggcg atgtgaccag ttcagcagtt 180
catgctcacg agagcttgct gtgcacatg tttcagagat cactcgcaat ggttcaattt 240
gcatgcagct cgatatcgaa agtcagtccc ggtatatttc aagaaagctc aaccttttct 300
caaaacctcg ggcgtgacc ctggcttgag aaatggaagg tgtcggttgg atcgagccct 360
attacgcaac gctaactgcc agatgtacag atagtacag gtgcggttcg tcgcgatgaa 420
atgtttgtg 429

<210> 15863
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-010-Q1-K1-D7

<400> 15863

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cgctcgccgg aggggaaggag ggatctccgc aggcgcccac ggaggtgaag ttgtggaacg 120
acaagcgcga gcgggagctc ctggagagct acgcggacct gtacgcgatc atcaaggccg 180
tggagaagct ggaacggggc tacgtccggg acctcgtctc agccgcccac tacgaggcgg 240
agtgcctcaa gcttatctcc cagttcaact ccctctctc ctcgctcgcc ggcgcgcgtca 300
ccgtccctcg ctctgctccag gcgtaccgnc tcgattgccg cgccgcgctc aaccgncttc 360
tccagtcggg cggtcccgcc accgtcgagc tccgcgcgcg gtccgcctca tccgcgcgcg 419

<210> 15864
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D8

<400> 15864

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ccaccagatc acttggttaa ctttggttag gggatgatggc ggtttctttc gcaaacctca 120
gctccgaggg agggcttaaa aagcttgatg agtaccttct cactcgcagc tacatcactg 180
gctaccaagc ttccaaggat gacttggtcg tctacacttc gttttcgtct gctccctcgt 240
ccaagtatat caacgtagca aggtgggtta atcacattga tgcgctcgtg aggctgagcg 300
gaattactgc agagggccaa ggtgtgaagg ttgaatcgtc agcagttcct tcagccccaa 360
ctccagatgt tgctgaagca caggccccag ttgctgagga ggacgacgac gatgatgttg 420
acctttt 427

<210> 15865
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D9

<400> 15865

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aagcaataac cgaccaagga cgacgaacgg gtcgatggcc acgctctcct gctgcagtcg 120
cctgagtagc ggcaccggcg ccgcgggccat acaccggcag ccgtcccgtg ctggagcctt 180
cctagtcgtc acctgcaggc ggagctcctg cgtgaccgtc cgcgccgcat gctctgtcac 240
ggcggcacat ccggctgccg tagagctgca gaacaagggg ttgtctcttc agacttgggc 300
ggattactag ctagggccaa cgcttgaatg tt 332

<210> 15866

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E10

<400> 15866

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tgcataccag atcatgaaga agggcggact taaggacgag aacatcgttg tcttcatgta 120
cgatgacatc gcgcatagcc cggaatcc gaggcctggt gtcatacata atcatcccca 180
gggtggcgac gtctatgctg ggggtgcaaaa ggattacact gggcgagagg tcaacgtcga 240
caatttcttc gctgttctgc ttggcaacaa aactgctctc aggggtggga accggcaagg 300
ttgtggacag tggccccaat gaccatata ttgttttcta cagtgaccat gggggtcctg 360
gcgtccttgg aatgcctacg tatccatata tctatggtga tgacctcgta gatgtcctga 420
agaaga 426

<210> 15867

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E2

<400> 15867

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cggcgtacc gctagaacgc gcgctcagtc tcaacatgcc accaccatcg ccgtctcgaa 120

cgctggtgcc cacttaccgc tgtccctgt accggtgtcc cttgtaagct gctgcacctt 180
 cgctgcctac tcgagctccg tgggtgcgagg gcaagggtccg gtcaaccggc cggaaccctt 240
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 acttgacctg acctt 315

<210> 15868
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E3

<400> 15868

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 tcatcaagtc cgtcgtaag tccgacaagc aggggtgccg taaggttacc aaggctgccg 180
 tctaggccgg caagaagtaa acggattgac acttttgttc ccaaagctc gtcttttctt 240
 tgcttcgggtg ctcttctcaa ggtcacatga gttgagcatt tcactaacga taccaccttt 300
 ctgctgtcac gaccttgcat gaaacatgat ggcgaggcag ttgcttcgag ggatctgggt 360
 ttatggctta gattattagt ttgcagcagc aattcaaaac tcattgttga ttgcac 416

<210> 15869
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E5

<400> 15869

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 tccttgtecc tccgccgtc gggcttcttg gggcgctcg tgctggccgc ggtgccagt 180
 gccgtggaag ccaccggcg ccgacgcgtc tccgtgtcgg tcgggatggc ctgggacgg 240
 ccgtctcgt cgggtgcgct catcatgcag agcaggaacg cgaagctgag cgagaagctc 300
 aaggagcaca tcgaggacaa ggtgggtcgg gcggtgtcca agcactgcc cctgggtccg 360

gaggtagacg tgcgcctctt cgagcgcggc ggctagctcg gccggggccc caagacgtcg 420
cgct 424

<210> 15870
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-010-Q1-K1-E6

<400> 15870

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cggagaaaact agctacacga aaaattctag gattcaagag aaaactatgt ttcagatcaa 120
gcctgtcctt gaggaggcca caagagcagt atacacagct ctccaccctc aaaccatggt 180
tgttgctgac ttaggctgct catctgggcc taacacacta cgcttcgtat ccgaggtgat 240
tggcatcata gctcgccatt gcaaagaata tggccgacaa catgaccaca cacagcttca 300
gttcttcttg aatgacctgc ccggaaacga cttcaacaat ctcttcagc tgatccagca 360
gttcaataag tcgacggcaa taaaccacaa gaggtaggca gttgaggcac tacctnctcc 420
gtgctatat 429

<210> 15871
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E7

<400> 15871

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gatatattct agctgcaggt gaaacttt 88

<210> 15872
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E9

<400> 15872

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gtttgcccgt ggagtagtta aacctacaat agcacctata tgggcacggg agttaatacc 120
aaacccacct aaaatgcctc ctggggccacc accatccttc gagtgcttcg ggttcaaaca 180
ttttgttatg gatgtggcag ttaacaatat tgcacatgtc aagagtgaat actttcaaac 240
caatggacac tattgctcta catttgatgt tgccattgcc aagggttggc aagctaggac 300
aagggcaatc aagtacgaac caaatttcaa ggtgcatgtt tgcttctttg ccaacactcg 360
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<210> 15873

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F1

<400> 15873

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gacctacaac gccgtcggcg aggaggagcg caggttcgag gtgttcaggg acaacctccg 120
ctacgtcgac gcccacaacg ccgccgccga cgcgggcgte cactccttcc gcctcgggct 180
caaccgctat gccgacctca ccaacgacga gtaccgcgcc acctacctcg gcgtcaggag 240
caagccgcag agggagagga ggctcgggtga caggtaacctg ggccggcgaca acgaggacct 300
ggcggagtcg gtcgactggc gggccaaggg cgccgtcgcg gagatcaagg accagggcag 360
ctgcgggagt tgctgggctt tctcaacaat agcggctgtg 400

<210> 15874

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F10

<400> 15874

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ggctcactgg attacaaacc agaagacaga cgagcacttg ctataaaatc acgtgaggtg 120
ccgccgaaat ttggctcccc acaacgtcag aaactaattg atgagatcca tgagcaaatg 180

ctcagtaagg ctctctctat cccccaaacg ctgccaaatg tgccaaacga ggagctcgca 240
cctgactctt gtgatgagca tgcagacaag gtagatgaag gtggcaacac atccaagtcc 300
atgtcaggct cgtcgagtgg ccatcctgtg cctgaagctg aatcgctggc tgcagaaaac 360
acgggtgaag catcagcagt tgaggttgcc aaccatcaag tgcctgaagc gagccgtata 420
gaaagca 427

<210> 15875
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D3

<400> 15875

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tcgaaggagg gtgcactggc tgaagagaac atgcgcggga tttgcttcga ggtctgtgat 180
gtcgttcttc atgccgatgc tatccacagg ggtgggtggc aggtcattcc aactgccagg 240
agggtcattt atgcttctca gctcacagcc aatcccaggc tgctggaacc agtttacctg 300
gtggagatcc aggccccata aaatgcactt ggtggcatat acggtgttct gaaccagaag 360
agaggacatg tatttcagga gattcaaagg cctggtacct tgctctacaa catcaaggc 419

<210> 15876
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-B8

<400> 15876

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actctcctgc cgtcttctct cttctctctc gtggcgcccc cgcttcgctc cgccacatcc 180
ggcaccatcg tcttcaccac gctgggcccg agccgctacg cctttgacgt cttcgcgctc 240
ccgatcgccc cgtctctccg cgctctccg gagctgcgcc tcacggacgg cgctccgctc 300

aactacaacg gcaacttcgc gccctcctcc tccggaccgc cctccctcct cttcgtctcc 360
gagcgcaacg gctcgtcaa cctctacctc acccccgtec ccacatccgc ctccgcccgt 420
cgccgcgacg 430

<210> 15877
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-B9

<400> 15877

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cttccttgca 70

<210> 15878
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C1

<400> 15878

gaaacagcag tagcgttagc ttcacgattt ggttgccgtc gtagcatcgc cttcatcggg 60
aggggtcttt tccaaccgtg ccgatactac atacaaagag atgatcattc aag 113

<210> 15879
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C11

<400> 15879

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tcctggcgca tggcatgggc acctgcccct ctccccaga agtcgccatg acctcaccaa 120
gacccagcc gagctcgccc ccggtccctt gttcccatg gcactcgccc tcttctccct 180
gacacgcgcc ctcccagccg agcagctcgc cctcgctccc tcaaactcgc cgcgcgcgcc 240
ctgctccctg cgcgcgcggg cttcctagct cctctccagc gtctatcaca gtccgagcct 300

cctccacgcc ggccggacct ccacctcgcc catggcggt tcccccgctc agcgctactcc 360
 ctcgctggtg gtcgggcagc agtcgcagct gcaaccgagt ggagaaaccc aggggtgccgt 420
 tgaaccccat cct 433

<210> 15880
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C12

<400> 15880

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 tactggctca tgggtatggc acctaagcct attccacaga actctccatt acctcaccaa 120
 gacctgaatc gagcttgccc ttagtccctt gattcccatg gcactagatc tcttctttct 180
 gacacgcgct cttacagacg agcatc 206

<210> 15881
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C2

<400> 15881

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 gccgccgag gccggcgagg tccgcgtcaa gatcctcttc accgcgctct gccacaccga 180
 ccactacacc tggagcggca aggatcctga gggctctttt ccttgcatc ttggccacga 240
 agctgctgga attgtggaaa gtgtcgggtg aggagtaact gatgtgcagc ctgggggatca 300
 tgtcattcct tgctaccaag cagaatgcaa agaatgcaag ttttgcaaga gcggaaagac 360
 caacctctgt ggtaagggtc gtagtgccac aggcgtaggt gtcgatgatga atgatatgaa 420
 gagcaggttc tct 433

<210> 15882
 <211> 409

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-C3
 <400> 15882
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 ttaataagca atgcatgcat agatgccctt tctgctgaaa agtattacta ttttattcgg 180
 atgatgggac gtaaagcatc tcatgtagca ttggaatgtg ctcttcagtc acatccaaat 240
 atggttatcc taggcgagga ggtttctgcg ttaaaactta caatatttga tattacaaag 300
 cagatatgtg atgctgtgga ggcaagagct gaaaaagaca aatatcatgg agttgtactt 360
 attcctgagg gccttggtga gagtattcct gaactgtatg ctttgcctcc 409

<210> 15883
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 15883
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 ccggccatgt cggaggagac ggagcggagc tccaccgagt cctccggggc ttccgggctc 120
 gacttcgagg acaccgcgt cagctcacc ctccgnetcc cgggctccgc gccttcgcc 180
 gccgccgcgc ccgcggcttc cctgtccctc tcctcctcgt cgtcctccgc cttccccgac 240
 cccgaccgca agcgcgcctn ctccgacgt gaccccgcc gctcctaccc gctcgccgcg 300
 tcctccgacg ctgcaccggc acccaaggct cgtgtggtgg gctggccgcc ggtgaggtcg 360
 taccgcaaga acgcgctcgc cgacgccgcg ggctccagca aggccgcaa gttcgtcaag 420
 gtggccgt 428

<210> 15884
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C5

<400> 15884

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 gcagagcgcc gtggctttac ggccggggccc cactcggctg ctggtgagca gcccttgctg 180
 gccgtcctc tcgggcgcgc cgattagtgt ctccgccgtt ggccgccgctg ctaccagaag 240
 cagcgccgtg ggccctagcg gtctggggct cggctctgat ccagcctaga ccgatcgggg 300
 tggcacgtgc ctgcagcgac aggtgtcatg catgcgcggc cggggatgct gtggcgggccc 360
 cagctgcaga agacggatgc tgactcatga 390

<210> 15885

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C6

<400> 15885

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 agcgtggtga tcctggacgg gtccacggtg cgcggttcg tggcggaaga ggcggacttc 180
 gcgcgcagtc tggacgcgcg gttcgccgcg ctggacgcca acggcgacgg cgtgctgtcc 240
 cgcgccgagc tccggcggcg gctcgagtcc ttccgccttc tcgacggcgg cggtctcggg 300
 tccggccagc cggcgccgat ccccgccgag gtcgcccgcg tctacgacgc cgtcttcgag 360
 cagttcgacg ccgaccacag cggcgccgct gaccgcgccg agttccacga cgagatgcgc 420
 cgcattca 427

<210> 15886

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C7

<400> 15886

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 atatccaaca tgatatacat agtacaccgg gctcgcgtgg ctgttcctgg gcgtcccgac 120
 cagcgacacc ctgctgtaca aggaggagct ggagaagatg aaggagatgg cgccggacaa 180
 cttccggctg gacttcgcgg tgagccgaga gcagacgaac gcggccgggg agaagatgta 240
 catgcagacg cgcattggcg agtacaagga ggagctgtgg gagctgctca agaaggacaa 300
 cacctacgtc tacatgtgcg ggctcaaggg catggagaag ggcatcgacg acatcatgct 360
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 cgag 424

<210> 15887
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-010-Q1-K1-C8
 <400> 15887

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 cgtggcagtt ggggtgattac gacgaagaga gatgggcctc ctcgacaagc tgtgggacga 120
 caccgtcgca ggcccgcgcc cggacaccgg gctcggccgc ctccgcaagc agcctgtgcg 180
 ttccgccgctc gtcaagatea gtgatccggc cggggacgct gcggcgttcg tgccgacctc 240
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 ccccgcgggg taccgctcgt cgccgaggag cgcggaagc acgccaccgg cctcgccact 360
 ggggactacg ccgnccatct cgccgtttgc cggcgccggt ggtcggttca gaaggaaatc 420
 atcgt 425

<210> 15888
 <211> 90
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-C9
 <400> 15888

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tgcatatcaa cgtaataaca ggggggctaa

90

<210> 15889
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-010-Q1-K1-D10
 <400> 15889

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 tccgctctcc agcacttggt cggaagaaaa agaaggtaga acacgctaac gagacaacaa 180
 ggatcatggg gcgcggggcg gccacctcc tgctgccggc agcagccgcc tgcctgtggg 240
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 ggctgctgga ggtcgggctc agcaagcgcg gcggcgggct cgaccagcgc gcgctggcg 360
 cggccaaggc cgcgaggcaa caagaagcaa gccgtctcgg ggccctncggc ggcggcg 417

<210> 15890
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-D11
 <400> 15890

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 ccttacgttg aatgatgatt tacaacgtgt ttagcaaag cacgatgcaa ttgctgctgg 120
 catagccatt cgattacaaa aacaaaaatc agccccggcc cgcgcagaca gttctccaac 180
 gaagcctgag ccgacaaagg aaacagaaca aaggtctgct aaagttgcca gtagtgtgac 240
 tccatttgag cagttagcac ttcctgcacc accatcatca agtgcttcaa agtctcatgg 300
 agaatcagct gttagcccaa atattgattt gcttagtggt gatgagtttt ttaaaccaga 360
 acctgttcat tcccaagctc ttgttccttt agtcactcag gcttcagctt cttcaagccc 420
 cagtacttta gac 433

<210> 15891
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D12

<400> 15891

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 gccgctgggc tgacatcatc aagcccggaa gcgtcaacac cgaccccatc ttccccagca 180
 acaagctcac cggcaccgac gtcgggtacc ctggtggcct ctggtttgac ccgctcggct 240
 ggggcagcgg ctgcgcggag aagatcaagg agctgcgcac caaggagatc aagaacggac 300
 gcctcgccat gctcgccgtc atgggcgcct ggttccaggc cgagtacac' ggcaccggcc 360
 ccatcgacaa cctcttcgcc cacctcgccg accctggcca cgccaccatc ttccaggcct 420

<210> 15892
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A1

<400> 15892

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 gtgcttcttc agttcttctt cctagtatgc actcgcttgt gaggcgtggc aatggctacg 120
 gctacggcta tgggtggttac ggcagcagca atccccatat gaactaccac cgccaaaaca 180
 ccgagtcggt gaccaccgtc gtcac 205

<210> 15893
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A10

<400> 15893

cttgaccgtg gcgagaagat tgaactgctt gtcgacaaaa ctgaaaatct gcgttctcag 60

gcacaagatt tcaggcagca gggcaccaag gtgcggcgga agatgtggct ccaaaacatg 120
aagatcaagc tgatcgtgct gggcatcacc atcgcgctca tcctcatcat catcctgtcg 180
gtgtgccatg gcttcaagtg cggcagcaag tgaggagggg gacttacgga tggccgtgcc 240
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tttgtttctt tagtcgtcgt gttaagtcgt cctgcgccga taattcttgg tggtcaccag 360
ataaagagtc attcctgggtg tcggtgttga ttgctgttgg ttggtcggga aatgactggg 420
tgaaccg 427

<210> 15894

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A11

<400> 15894

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ggaacaaggt atacgtgggg aaccttgcac ggggcgttga caactcgact ctggagaacc 120
tattcagtga gcaaggacag gtgctggatg ctaaggctac ctacgacagg gatagcggca 180
ggtcaagggg gtttgggttc gtcacctatg gctctgccga ggaggtcaac attgccttat 240
caaacctgga tggtttaacc tggattgtag accgatccca atcacgggtg cagaatcaaa 300
gcccaggcgt gaattttgag attttgttaa agtgggttag aggtcaatag cgtgtgttca 360
caaggtctaa gttggaaccg gtattctttc tttcgtatga g 401

<210> 15895

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A12

<400> 15895

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cgccgtgggc agaaggaggt ccttcaccgt gcgcgcctct ctccgcaagg ccaccggcac 120
cgccgcccgt gcaatggctg ccagcgcctt gcttgccggc ggtgccatgg cccaggaggt 180

gctgctgggc gcaggcgacg gcgggctcgt cttcgagccc agccagttca cegtcaaggc 240
 cggcgacacc atcacattca agaacaacgc cggcttcccc cacaacgtcg tcttcgacga 300
 agacgaggtg ccgagcgggc tgcagccac caagatcttg caggaggagt acctcaacgc 360
 gccaaagcgag acctactccg tcaccctcac cgtgccggga accta 405

<210> 15896
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A2

<400> 15896

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 atttgtgctg tatctagggtc ctcatattgc tctgttctact attaaagctg ttcagtgtgg 180
 ccgaattgat ttgaaaatgg ctccatatga taccatacag ctttaagggtg ggccatcatg 240
 gctcgacaag aaatgttctg aatttggtcc gcttgtgtat ccagcatcag ctcatctctg 300
 taggatcccc gtctttgatt tactacctca gatacagctg gaagcagttc tttggggcat 360
 tgggactgca cttggcgagc ttccccctta ttttatatca cgagcagctc gcttatcagg 420
 aagc 424

<210> 15897
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A5

<400> 15897

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 gaggaagtt gttgttgaga aataggaaag tggaatgaaa tccagtctta gtcaaattatt 120
 tcatatctct tctcttcttg tccaaacaga aggaaaagga gacaatttga gctgagcgga 180
 aaatccatat ctctcttctc catttagagc atatggatcg atttataaga atcgaatggt 240
 ttgtttttat gttattttgt gatagaatga aaaagaattc tatatagaat gggttgggaa 300

ttatgcctag atccccgtata aatgggaaatt tcattgataa gaccttctcg attgtagcca 360
 atattttatt gcaaataatt ccgacaacct ccggggaaaa aagggcattt acttattata 420
 gagatg 426

<210> 15898
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-010-Q1-K1-A6

<400> 15898

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 agcagaggaa gttcctccag agatccctga accagctttg ggtataaact ttgctagggg 120
 tggcatgaac gagaaggatt gggtggcggt agttgctgtc cacagcgatg cctgggttact 180
 agctgttgca ttctactttg cagcccgggt tgggtttgac aaagaggcca ggcggcgact 240
 cttcaacatg ataaataact tgcccacaat atttgaagta gcgactgggg ttgccaagaa 300
 aaaaaacang gagaaggaa ccaataatac cagcaaaagc aacaaaccaa gttcgaaaat 360
 gacaacaaga cccgagtctc atttgaaggc gacaaaagtg gcgcccccta aggatgaaga 420
 tgatgag 427

<210> 15899
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A7

<400> 15899

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 gtcctcctc gtctctgctg ctgcggccct taaggtcctt gaagttggca ttggaaccat 180
 taccttgga ttaatccaga aggccttaat ggaaccagta accacccatc caatgcctgg 240
 ttgaacagct tacacttaat cctacacttt acaatatacc attgcgcaat ttaagcacat 300
 acttggagtg aaaccagcac cacagaatgc actaagcaat gttcctgtca aaacttattc 360

aagatcactg gaactttcaa aagagtttga cgctagatct gcatg

405

<210> 15900

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A8

<400> 15900

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gaagtcgagg acggaggagc tgtgggagcg cgaggtcggc ggtctccac ccaagcgctt 120

cgccaactcc gtcatggcct ccaaggagtt tgtgcagtct ctcaacatcc aaaagcggct 180

acggaagcac aggagttgcg tcaacacgat aagcttcagc gcggacggga ggctgctcct 240

ctccgggtcc gacgaccgga ccctcgtgct gtgggactgg gaggaggcgg cgccggcctt 300

gtcgttccac actgggttca gcagcaacgt gtaccacgcg ctgttcatgc ctgtctccgg 360

tgacaggagc atcgtctcgt gcgcttgctg aatgggatgt gatcca 406

<210> 15901

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-B10

<400> 15901

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atctctcgaa gcggctagct gctagctgct agcagccaat taatggcgaa gccttcgcag 120

gtgctgggtg cggcgctcgc cgctgggagc gtggctctgc tgctgctgtg cgccgccgag 180

ccgcggggcg ccgacgcagc cacggcgtgc gacgccgagc agctgacccc gtgcgcgggc 240

gccatcatcg ggagctcgcc gccaccgagc gcgtgctgca gcaggctcag ggagcagcag 300

ccgtgcctgt gcacgtacgc gcgcgacccc aagctgcagc gctacgtcag ctcgccaac 360

ggcaagaacg ccatggccgc gtgcaaggtg cccgtgccgt cgtgctaatt taaacttctg 420

ttagcgcc 428

<210> 15902
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-010-Q1-K1-B11

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 cgccggatag gccccgcgcc ggcgcgggcg ccgggttcga ggattctcct gtgttcaatt 120
 tcatcaacaa tctctcgctt ataccaccac ctaaactttt agactcagca cataatgtgc 180
 agctattcaa gtcacagat ttggcacctg tttcttcgat ctttgcctca ccacatgtta 240
 atccaacaaa gggaactaaa gttctgatca gggacgaatc tgttcagctt cctcatgaat 300
 tgcactcacc tagcagtgtc agaactcgga taggcacctc aggctctttt agaatgatca 360
 gatgcaaaga cattgtgcc a gagaattgta ataactcttg tcaactaaac gaggcaccta 420
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<210> 15903
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-010-Q1-K1-B2

 <400> 15903

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 tggccttcac gaacaagagc ctagtctctc ggcacgcagc gctacgggtc tgctcgctga 180
 ggcgctcgat ccgtagcctg gtcgttaagg ctgcaactgt cgtcacccca aagtacactt 240
 cactgaagcc tctgggagat aggggtgcttg tgaagcttgg tgccgcagag gagaagacag 300
 ttggtggcat tttgcttcca tctactgcc agactaaacc acaaggagggt gaggttggtg 360
 ctgttgagc aggaaggacc atcggggaca agaaaatagc tgtggatata gagactggag 420
 cacaagtagt 430

<210> 15904
 <211> 427

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-B3

<400> 15904

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 aatctgctct cacgcttcac ggcgaacgag ttcagccttg agtccaagtc caccatcggc 180
 gtcgagttcg ccacccgctc tctccaggtc gacggcaagg ttgtcaaggc ccagatttgg 240
 gacactgctg gccaggaacg atatcgtgct attactagtg cgtattatcg aggtgctgtt 300
 ggggcgttgc ttgtatatga cgctactcgt cactcaacct ttgagaacgt tgagcgttgg 360
 ctgaaggagt tgagggacca cacagatccc aatatagttg ttatgctggt tggcaacaaa 420
 tctgatac 427

<210> 15905
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-B4

<400> 15905

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 ggccgagcag catgagcgct tcattctttaa ggtcacacac ttgctgggtg ttcttggatt 180
 tgggggattt tgctatctct tgggtgccag accacaggat gtgccatatg tgtactgcct 240
 gttctatgtc atatttgctc cgctccgctg gatttactac cgctacaaga aatggcatta 300
 ctaccttctg gacttctgct actatgccaa cacctttctc cttgtaatga ttctcttcta 360
 cccagaggat gaaaaacttt ttatggtttg cttctcgttt gcagaggggtc cgcttgcttg 420
 ggcattaa 428

<210> 15906
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-H7

<400> 15906

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aggagtggct acaactcgta cgaacctgat ggaaggggtg gatacaactc tgttcccatc 180
aacggcgggtg gcagccccta gctaggcggg ggatcggagc ctgtatcaga aatcgaaata 240
atataagact gtcttcaacg gatcacactg tcgctcccc acgctaagat tgggggctac 300
agtgcacacg ctagccgata aacggctcac gc 332

<210> 15907

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F1

<400> 15907

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agaagagaat cgtgccattt gtcattgtcag gaggatcttc accatcatca atgcgaaaca 120
gctttaattc tttgtctaag gacctagacc ttccttcaga gcaagggttg ctctccattg 180
ttgtacttgg ggcttgtggt gaccttgcta agaagaaaac atttccagcc ctctaccacc 240
tctttgagca gggattcata caatctggat gattccatat atttggttat gctagatcaa 300
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<210> 15908

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F10

<400> 15908

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cggtttttac accctgggac acatacagcg gctgcgagcg ccaatgttga agtatgccgt 120
gattttaaac gaggagaatg caatcgacct gtctgtcgtc ttttgcatcc atatacaagt 180

tgaagttttc tgtagctaa acttgagtgc tctgcctaac gttgcctgta ctgttggtgc 239

<210> 15909

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F11

<400> 15909

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ttcctgggca cccgcctggc ggacccggcg ccacagaacg ggcgcatcgt ggccccgttc 120

gggttcgggt tggggcgcaa ggcgaagcct gctccgaaga aggtggcgaa gacatcgacc 180

tcctctgacc ggccgctgtg gttccccggc gccgtggcgc ccgactacct ggacggctcg 240

ctggtcggcg actacgggtt cgacccgttc ggtctcggga agcccgtgga gtacctgcag 300

ttcgagttgg actcgctgga ccagaacctg gccagaatg aggccggcgg catcatcggc 360

acccggttcg agtcctccga agtc 384

<210> 15910

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F2

<400> 15910

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tcccttctag aacctgctcg agatgcagag cgccgcggct ttgcggccgt gccgcactcg 120

gctgctggtg agcagccctt gtcggcccct acggtcggcc cgcccgtta gtgtgtccgc 180

cgctggcgcc gtcggtacca taagcagcgc cgtgggccct cgcggtctgg ggctggggct 240

gctgcca 247

<210> 15911

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F6

<400> 15911

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gaggagattg ctaaaaggct tggacaatgc cctttggcag caaaagttct tggttcccgga 120
atgtgcagga gaaaggatat tgctgagtgg aaagctgctc taaagcttgg agatttaagt 180
gatcccttca catcttttgg atggagctac taaaagttag atccatgtct gcaaagggtgc 240
ttcttgtatt gcagcttgtt tgcaaaaggc cacggatata gacctgataa gttgggttcac 300
ctagtgggtg cagaaggatt tattgggttca tgcaatttga gtaggagaac agttgaagat 360
ggtgggatgg attacttcaa tggatatggc ctct 394

<210> 15912

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F7

<400> 15912

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tgctggactt ctgggtgagc ccgttcgggc agcgcgtccg catcgagctg gcggagattg 120
gcattggcta ctagtactcg gagcatgac tgatgggcgg cgccaagagc gacatcctac 180
ttcgtcccaa cccggtgctc aagaagatcc ccgtgcttct tcacgac 227

<210> 15913

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F9

<400> 15913

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tcgcgcaggc tcccctatcc cttctgttcc cttcaaaaag actggactgg atcttcccag 120
agttcccgtt cggagagccg ccggatcttc ttcgacgagg cttcgatctg ctgctctccg 180
tcggcgtgtt ggggacttgc accttatccg aagatgtctt ttcggagcat gggtcgcgat 240
ataagggaaa gttttgggaa tatatcgagg cggaactttg aggtgagaat tcaccacaga 300

gggaagtctc ttgggtcttc aagtgacttg caagacaggc ctgctgaagt tcagcaaagc 360
 aggtgggcta gccttcctcc tgagttgctc tgcgatgtga tgaaaaagtt ggaggaagat 420
 ga 422

<210> 15914
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-009-Q1-K1-G12
 <400> 15914

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 gccaccggcc cgcgcggcgc cggcgcgggg cccatctgct cgtccatgtc catgtcctcc 180
 tccaaccgcg cctacgacct gacgtccttc cggttcagcc ccatcaagga gtccatcgtg 240
 tcccgcgaga tgaccgctcg ctacatgacg gacatgatca cctacgccga caccgacgtc 300
 gtcacgtgtg gcgcgggctc cgcggggctg tcctgcgctg acgagctctc caaggacccc 360
 gccgtgagca tcgccatcgt ggagcagtcg gtgtcgccgg gcggcgggcg gtggctgggc 420
 gggcagc 427

<210> 15915
 <211> 168
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-009-Q1-K1-G4
 <400> 15915

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 ctctctcgtg tcagccgccg cggttgccgc cgacgtcgac gcgtatgacc cgctgatagc 120
 gcgattaggt cccggtggag atgacatcga tctggagctg aacgcgga 168

<210> 15916
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-G6

<400> 15916

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attcaatcga agaaaagatc ttcagcaatt aattaccgaa gaaaagaagg ctctgtatg 120
acatcaaccg gaaccgtag tcgtgcttgc gactatcgcg tcgaattagt cagggttaagt 180
tggttcgtat tcccattaac taggtctata aatagattaa atagaattgt tggtcacaat 240
aaatattatt aatttagcat gcgtatattg tgatgattga tttagataac tcgctaaatc 300
agctaattaa gttacacagt ttagagagtt aataaaaagc ttataattaa tatagatttt 360
ctagggtaat atgtcaatta gattaatgga tatagtcgat gtctgtgtgt gatatccatg 420
g 421

<210> 15917

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-G9

<400> 15917

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cttcctctcg cccgactctc ctaccacctc cgctccgtac cttcctctcg tctgccgtct 120
ccgcgcctac gtatctttgc ctcccatcgc cttttctcct ccctggacca tgtctccgcc 180
tctgcttcgg cctccgcggc cgtggccgag gttgtaggcg tgccggacgc ggaggagtcg 240
gtagaggagg aatctgcggc cgaggcggag gcggaggcgc ccaggtcgtt cgtgctccca 300
cggctgccgc ggccgaagct gagcgtgaag gagcgggaagg agctggcctc gtacgctcac 360
ggcctcggca aaaagctcaa atcgcaacag gtc 393

<210> 15918

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-H12

<400> 15918

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 ctcttgcgcg cagacaccgc gcccgccaaag cgcccagaac cagccgccgt ccagcgagca 120
 accgcaagca caaacacagc agcagtcctg gcaagcgag ccacagcagg cggcgggcgag 180
 gccgaagcgc gcggggcgcg cggaactccac ggactgggtg gcctcgtcgc tgacgcggcg 240
 gtctgggatc ggcgcggggc tggcgtgggc cggctttctg gccgtcggcg tcgtgtccga 300
 gcagttcaag acccgcttca aggtcgcgca acagcaggcc aacaccaagg acgtggaaca 360
 ggagcaggag gtcgtcctgc ccaacggggt cgggtactac gagatg 406

<210> 15919
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-H2

<400> 15919

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 tacccaatcc tgacgacgaa gcctccgagt ccattctctt ccgggtgaag atggtctgcc 180
 gtatccacgg gtcaggcgac ttggttctcg actacgaggt aaaccccagg agcgacctac 240
 ctccccttcc ccgggtgggc gtcgtgttca gctgcgagag gtccttgagc cacgtcacgt 300
 ggtacgtgcg cgggccccttc gagtgtacc c 331

<210> 15920
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-H5

<400> 15920

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 ctgcgcctgc gcccgtagga atctccgcac ctcgctatcc gtctcttggg tagatcgatc 180
 ttccgtcgct ggttcccctt cggccacac gagtacttcc aagggaactgg aacttcacg 240

cggcacgggg attcgagctt ctgctctatc agcaactcca ctgggcgctg agggctctgta 300
gcagagcggg gcgatcgggg cagaaggagg ccatgatgga ggggcaagcg tggctggcgc 360
ttctggtcgt ggtggc 376

<210> 15921
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-H6

<400> 15921

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catgtacctg aagacacacc cgggtgtgga cgagatcgag tcgggagaag ggggtgcaacg 120
ttatggaccc gctcaagctg tcgtaccagg cgcggtatgca cgcgtcgcat aacaagcggc 180
tgccgctgca tgccgtgctc agcgtgctct actacgacca gctggagatc cg 232

<210> 15922
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-E9

<400> 15922

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cgctttgctg ggcaagccgg tgaaggggct tggcctgagc atggggccgc agcgcgcca 180
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tccccaagac cggacgc 437

<210> 15923
<211> 443

<212> DNA
 <213> Zea mays
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 gttccagtgc agggcgctga ctttcgcggc ggacaccagc ctccggctcg agctggacga 240
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 caaccttcgc gccttctcgt agtcgatga gacggctgcc caggcagact atcagcgcg 360
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<210> 15924
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-009-Q1-K1-C9
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 cctcagcgtc gaggaacatg tgctaggggtg tatactatca accccaaaaa acccaactct 180
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 cctggtattg gccataattt acaagaacat tctgtagtat tagtaagaag aggaaggggt 300
 aaggatttac ccggtgtgag atatcgcat attcgaggaa ccctagatgc tgtcgcagta 360
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<210> 15925
 <211> 251
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-009-Q1-K1-D1

<400> 15925

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gagaagggttg acgtgatcaa gaatgatggt gattcaattg tggatcctat catcggcaag 180
gttgtcaagt gcaaagatat ttagagacaa gtggtgaact gaagatgtga gacattagtt 240
gggctggtct g 251

<210> 15926
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D10

<400> 15926

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acggaaatta tgtcgaagag catagcagct gacagaaagg aggcagaatt tgcattgtca 180
gcgctgatgg aaatccctac acagtacaaa gcaacaattg atctccaact cttaggccgt 240
cgccaaagaa taaccccaag aattgctctg ccaccaccaa caaggaccgc gtattcgcgg 300
tccagtagct ttagccaaca gtctggtggtt tattecgcgt caagtagctt tgaccaacaa 360
acaagtggcg cctctcagca acgttctgag agcttgaac agcagaagaa acctgcagcc 420
a 421

<210> 15927
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D12

<400> 15927

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cgaggatgtc ttgcaactgc ggatcaagct gcggtgcgg ctcaagctgc aagtgcggca 120
agaagtaccc tgacctggag gagacgagca ccgccgcgca ggccaccgtc gtcctcggcg 180
tggccccgga gaagaaggcc ggcgccgagt tcgtcgaggc cgcggcggag tccggcgagg 240
ccgcccacgg ctgcagctgc agtggcaact gcaagtgcaa tccctgcaac tgctgatcac 300
atcgatcgac taccatggat atgattatta tctatctagc ttgtggtggt ggttgaacaa 360
taataagcga ggccgagctg gctgccttac ataggta 397

<210> 15928
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D3

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agaaaatcta attgagaatt ccattcctta cctcaagtac agttacatga agtacatagc 180
tgttcacaag aaaaagcgtg ggaaagaatc gacagtgggt aggtcagtgc ggttatcaac 240
aagagtggag aaagagtatt t 261

<210> 15929
<211> 97
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D4

<400> 15929
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ctggcgggtcc cagctccaca gaacgtgcmc gtcgtgg 97

<210> 15930
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D5

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tctgcaaadc ttgtgctagg ccatgaccaa gttgttaaga tcgcagactt tgggtgtggcg 180
cgacatggaa gtcagcaggg gcagatgact gctgaaactg gaacctaccg atggatggca 240
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ggtctttggg agctggcaac ttcaatggtc ccatatgaca acatgacacc cttgcaaggc 360
tgc 363

<210> 15931
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D6

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aagctataat gagagatggg aagaagcgaa tgcagcacia gccagctgc tgtgggagcc 120
ggctgcgcgt gcgcgggtctg cggctgcgcc gcgggtggtgt actgcgcggt ggacgctgcg 180
gcgctctgca ggccctgcga caccgatgtg cagctgcga acctgctggc gtcgcgccac 240
gagcgcgtgc ccccttccat ggtgactgct gcatccggcg t 281

<210> 15932
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D7

<400> 15932
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agtcaggtag gcgaagctgg aaaagcaagc ggctttggaa gttggaattc atggcgtgca 120
ccttgtgctg tctccaccag tccacctgtc cgtgtggccg cgcc 164

<210> 15933

<211> 330
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-009-Q1-K1-D8

 <400> 15933

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 gtcttgcaac tgcggatcaa gctgcggtcg cgggtcaagc tgcaagtgcg gcaagaagta 120
 ccctgacctg gaggagacga gcaccggcgc gcaggccacc gtcgtcctcg gcgtggcccc 180
 ggagaagaag gccgctcccg agttcgtcga ggccgcggtcg gagtccggcg aggctcgcca 240
 cggatgcagc tgaggtggca actgcaagtg cgaccctgc aactgctgat cacatcgatc 300
 gacgaccatg gatatganta ttatctatct 330

<210> 15934
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-E10

 <400> 15934

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 cactgagtcg gaccccgagg gagccaagcc atggcgcca cctcctgctg cctcctccac 120
 cagtcaaccg cccgcctcgg cgcgtcgccg cgcttgccc cgcgccgcc gcgcagcgcc 180
 cagctgctcg tctgcaaggc ccggaagcag gaagccgccg cggaccagag cgacgtctcg 240
 cgccgcgccg cgctcgcgct cctcgccggc gtcacgggcg gcgccggcg caaggtgggt 300
 cctgccgccg cgggatacgg agaaacagcc aacgtgttcg gcaagcccaa ggcgagcacc 360
 gagtacatag cgtaca 376

<210> 15935
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-E11

 <400> 15935

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gacatgtcga tcgtgtccta cggggagcgc agcgacgagg aggcgcggcg gatgtacgcg 120
gagtggatgg cggcgcacgg cgggacctac aacgccgtcg gcgaggagga gcggcggtac 180
caggtgttcc gggacaacct ccgctacatc gacgcgcaca acgccgccgc cgacgcgggc 240
gtccactcct tccgcctcgg cctcaaccgc ttcgccgacc tcaccaacga cgagtaccgc 300
gccacctacc tcggcgccag gaccaggccg cagagggaga ggaagctcgg cgccaggtac 360
cacgccgtcg acaacgagga cctgccggag tccgtcgac 399

<210> 15936

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-E3

<400> 15936

ggcagcgaag atccaaagat agcacaatcg catctcacac gccgagctat ttgtactttg 60
agagaatccc cttatcccac aaggagcgag taatgtgagg cagagaccga cacagatggc 120
agcggttatg gtgtctcgcc aaggccagga gctgcagcgg tacagcgcg gcacggggcg 180
gcgcg 185

<210> 15937

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-E4

<400> 15937

ggaagaagag gggaggcgcg aaaaaaagg cgccgcgcca cgcacgtcc ccgactcctg 60
gatcgtgtag cctcgtctct cttctcccga tctgatccga agcgtgctg tgactacgac 120
gacctaaggg cacgatgcat ttgaccaacc tgctgctgga ggagcccatc cggatggcct 180
gcatcctgga gccca 194

<210> 15938

<211> 424

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-E5

 <400> 15938

 cggacgactc accaaagcac gaaagccagt tagaaaatgg attcctatatt gaagagtgcc 60
 taaccgcatg gataagctca cattaacccg gcaatttttg atccaattcg ggatttttct 120
 tgggaagttt ctggaagaaa ttggaataat atcggattca tacagaggaa aaagttctct 180
 attgatgcaa acgctgtacc tagaggatag ggatagagga agagggaaaa atcggaatga 240
 gataaataaa gaataaagcc aaataaataa gtcgaagata gaagagccca tattcaaaat 300
 gaggaaatgg aaactcgaaa aggatccttc tgattctcaa agaatgaggg gcaaggtgat 360
 tgataccgag aaagatttct tcttagtata agacgtgatt tgatcccat atgtttggga 420
 aaag 424

<210> 15939
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-E6

 <400> 15939

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 actgctatgg tctaggtcat gtacaccacc tcagcacaag catgaatgag aggctacaac 120
 tcgtacgaac cttatggaag ggggggatac aactctgttc ccatcaacgg atgtggcagc 180
 ccctagctag tcggtggatc ggaacctgta tcagaaatcg aaataatata agactgtctt 240
 caacggatca ca 252

<210> 15940
 <211> 86
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-E7

 <400> 15940

 tgcggcggca gccacatcga gtaatttatc gagtccagtg agagggcggg agcagatctc 60

ggcgtccgtg tccatgtgtg ctgccg

86

<210> 15941

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-E8

<400> 15941

gcaaaagcca aaggcatcac cgccgcgacg acgatggcag cctcgctccg agccgcgggc 60

accctgatgc agccggccaa gatcggcggc cgggcgccct ttgccttgct ggcgtcccgc 120

ccgtcgtcgc aactcgctg cagggcggtc ggcgtcgacg ccggcgccgg cagtatcacg 180

tgctccctgt aggacgtggc cagcaggggtg cgtcgactcc g 221

<210> 15942

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-C7

<400> 15942

gccgccaag tcctctggcc ccaagaagcg gggcaagacg gagatccagg agacgctggt 60

cacgcccctg ttgtacacca gggacttcga cgagatggag cgctgttgg acggcgagat 120

caacaagcag ctcaaccagg cggagttcta cgccctgcta caggagttca ggacagacta 180

caaccagacc cac 193

<210> 15943

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-A11

<400> 15943

cgctcgtctc ttgcgcccgc cgctcccgt ccttaccctc tccgctcacc ctctcgaggc 60

cccgcgccgg cgccgtctca tttctggctg cccaaccgtc gccggcgacg gcaccgagat 120

ccggcaggaa tcttgctctc ttctgttctt tatcaccgac gtcgccatcg ctaactgagg 180

ccgccgtagc actgccgcca ccgaaggctg cggtggaaga gacgaagccc cctgtgccga 240
 ccgggggacga gaaggggggaa ccgaccgtgg aggagctagc gggcctgctg gacgtccggg 300
 tgggccgagt ggtgaaggcg tggaggcacc cggaggcgga caccctctac gttgaagaag 360
 tggacgtaag tgaagcggag ccccggaacca tctgcagcgg cctcgtcaac tttcttccca 420

<210> 15944
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-A12

<400> 15944

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 gcctgatcga tggcgggccca ggctctcttc tccggccggc agctgctggg ccgccccgtg 120
 cagtcggccg tctctagggtc gtcggcgagg aaggcgccct tcgtcgtcag ggccagctcc 180
 agccctccag ccaagcaagg tgccgacagg cagctgtggt tcgctgcca gacgtccctc 240
 tcctacctcg atggcacgct gcccggcgac tatggcttcg acccgctggg cctctcggac 300
 ccggagggga ccgggggctt catcgagccc aagtggctgg cctacggcga ggtgatcaac 360
 ggccgctacg ccatgctggg cgcgggtggg gccatcgccc cggagatctt cggcaagatg 420
 ggcatta 427

<210> 15945
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-A2

<400> 15945

aaagcattac cataggctca ttcacgaaa cgcaaactag agagacagga aaagaataaa 60
 gaattttgat caaatcaata gaaggaagga tcccttacct gatttgaatt tcatgctcct 120
 ttaaataagga tatgctctaa gtcttcccat actttcctat aatgactgca acgattttct 180
 ccattttgcg aattcctatt ttatgtgaag tatattacta tcatatacat gatctaaatc 240
 gatccacttt aaataaaaata gaaaaaatcg aaagaatcaa aataagaaag agtaaataat 300

agcacaaggt attctgcttc ataattctga aatagagttc ttgttttagt attacttctc 360
 attaagatgt atatattaat catcctatct taatatatat taatcatcct atttttatta 420
 ggttctaatt caa 433

<210> 15946
 <211> 234
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-009-Q1-K1-A6
 <400> 15946

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 gctcatcgag ttctgctcct gctctctctc gcgtgtgtcg tcgcgggttc cgatcttcgc 120
 gacgcggagg acccgctgat ccggcatatg gttcccgggt gagatgacaa cgatctggag 180
 ctgaacgcgg tgttccaatt actgagcttc aggcagcggg tcgtgaagtt ctac 234

<210> 15947
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-009-Q1-K1-A9
 <400> 15947

aacttaatcc cctggcctca taactccaag tgtataggca aaacaagtat tcatcacttg 60
 tatgcacaca tttaggggga gaatggtcta taatttgaat ctttgagact aacttcattt 120
 tcaaattctat tatgtgtgta gtctcaaatt agaaaggaat gttcgggcaa agacaatcac 180
 ttccactgca aattttgatg ggtatcaaag attctttgct ccaataaatg tatcttttat 240
 acatttcata aggggaatggg tttctctttt atatgctact ccaacatcat ctaaaattgg 300
 taaacatgta tcacatcctt ttggattgca aatgtctaaa gtagcatagc ttataaattc 360
 tcctatttag aacttaattg att 383

<210> 15948
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B1

<400> 15948

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tagcaccgtg ttccgcacca acatcccgcc caccttcccc ttcttcgtgg gcgtggaccc 120
gcgcgtggtc gccatcgtgg acgcctgcgc cttcaccgcg ctcttcgacc cggacctcgt 180
ggacaagcgc gacatcctca tcggggcccta taaccggggc gccggcttta ccggcggggac 240
gcgcgtcggc gtgtacctcg acacgcagga ggaggagcac gcgcgcgtca agaccttcgg 300
catggacctt cttcacc 317

<210> 15949

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B11

<400> 15949

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aacaagttgc aagcaataac cgaccaagga cgacgaacgg gtcgatggcc acgtctcct 120
cctgcagccg cctgagtagc ggcaccggcg ccgcggccat tcaccggcag ccggcccgtg 180
ctggagccgt cctcgtcgtc acctgcaggc ggagctctc cgcgaccgtc cgcgccgcaa 240
ccgctgtcac ggctgcggcg ccggctgccc tagagctgca gaacaagggg gtgtcgtcgc 300
cgacgtgggc ggagttcgag cttggggcgg cgccggtcta ctggaagacc agcaacggcc 360
ttccgccctc ggctggcgag gggcttacc tggtc 395

<210> 15950

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B12

<400> 15950

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cttcggggcc ttagccgcga cgagcgccac caggagtag aagaggtaa ccttctggtt 120

ggaaacgatg tacttcgaag gctatggctt ccgtggaagt actttcgagc agacatatcg 180
 ctgctatcct gcgtctttca tcgacaagcc acaacttgag gccggtgaca aaattataat 240
 gccaccatca gctcttgatc gtcttgcac tctgcatatt gaatacccta tgctatttga 300
 agtcacaaat gcagcagcag aacggacttc gcattgtggt gttctggagt tcattgcaga 360
 agaaggcatg atctacatgc catattggat gatgcaaaat cttcttttgc aagagggaga 420
 tatggtgttc at 432

<210> 15951
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B2

<400> 15951

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 agctgctatg gtctgtgtca tgtacaccac ctccgcacaa gcaggaagga gtggctacaa 120
 ctcgtagcaa cctgatggaa ggggtggata caactctgtt cccatcaacg gcggtggcag 180
 cccctagcta ggcggtggat cggagcctgt atcagaaatc gaaataatat aagactgtct 240
 tcaacggatc aactgccga tccccacgc taaatttggg ggctacagtg cacacgctag 300
 ccgatcaacg gtcacgcta ccatgcgctc tacgaggatg tgccccctag ccagcttcta 360
 tcttccctc gttctgtggt gcctatctca ccctctctaa tattgttcac gttggccac 420

<210> 15952
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B3

<400> 15952

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 cgctgtcttt attcgacaga gcaagccgag gcgccttatg gactgggtgt acatgttctt 120
 ttaagataat gcttgagtga ttgtgaatgc caagggtgag atgaaagggt ccgctatcac 180
 tggacctatt gtctatgagt gtgctgatct ttggcctagg attgctagcg catcatcacg 240

cat

243

<210> 15953
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B4

<400> 15953

atatatgtat tattacaagg cacatacata cagctgcaga gaacggatgc gtgaacaccc 60

gttgtctc 68

<210> 15954
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B5

<400> 15954

acacccagcg caaagcgatg gcgtcgctca ccatgatggc gttcttcgac gccctcgagg 60

tggccgcgca ctagcgccgt aggacacttc acgtggtaa g 101

<210> 15955
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B8

<400> 15955

agagaaggat gggcttcgag aagcagatcc tgagatccgg caccggcccc aagccgataa 60

agggccagaa ggtcaccgtt cactgcaccg gctacggtaa ggatcgtgat ctgtccaaga 120

aattttggag caccaaggac cctgggcagc agccattcag tttcagcatt ggtcagggtt 180

cagtgatcaa aggatgggac gagggagtta tgaccatgca agtgggtgaa gttgctcgta 240

tccagtgcac gcctgattat gcttatggag ccagcgggtt cccagcctgg ggaattcaac 300

caaactcagt gcttgtgttc gagattgaag tcctcagtgc ccagtaattc ggatctgtca 360

gctatggaaa cgttggccat gcttctcaag taatgaaata attccgttgt cacctcatgc 420

ttcatac

427

<210> 15956
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-C10

<400> 15956

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gatgatgctc gcggccgacg tccacctcgg caccaagaac tgcgatttcc agatggagcg 120
gtatgtcttt aagcgtcgca ccgacggcat ctacatcatc aacctgggca agacatggga 180
taagctccag ctgcgggcca gggttattgt tgccattgag aaccgcaag acatcatcgt 240
ccagtcggcc cgccctacg gtcagcgtgc tgtcctcaag ttcgcgcagt aactggcgc 300
ccatgccatc gctgggagge acaccttg taccttcacc aatcagcttc agacctcttt 360
cagcgagcct cggtctgtca tccttactga ccaaagact gaccatcagc caatcaagga 420
gtct 424

<210> 15957
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-C12

<400> 15957

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acaacgcgcc gtcggcccag gagatgtcct acttgagca cgtgcagagg cgccacgagg 120
agaagggtg cctctacgcc tgcatttca ctgcgctgtg ctgcttctgc tgctacgaga 180
cctgcgagtg ctgcctcgac tgctctgct gctgctgcaa ctagccgggg ctagctccgg 240
aggacggtcg agacgcagca gatggaggtc gcctccgtct cttctaccta cctaccaatc 300
tacctagtga tgatgattca gttccggtt agtctggtgg tgtgcaagtg caaacataat 360
aacgcacgca tgtcgtaacg tagtacagga gagatgtttt actctgtcag tttccagttg 420
agcat 425

<210> 15958
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-C2

<400> 15958

gccattcatg acagaagggt cttgtttaca cttaatgaag atctcatacc aagacggttg 60
 tgatgagccg gtcattgggt acattctaaa ggaaactctt aaggctctgg aataccttga 120
 ccggcagggt caaatacatc atgatgttaa ggctggtaat atccttattg atgggtgctga 180
 ggtagtgaag cttggagact aggggtgattg tgcgtggatg tttgatagag gtgacaggca 240
 tagatctagg aatac 255

<210> 15959
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-H8

<400> 15959

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 atagagatca ttggcgtaag tggaacctca caccagcagc ttgcaacttt gagtggacac 120
 cagggcccag tatggcaagt cgcattgggt cattccaagt ttggttccat gcttgcaccc 180
 tgcagctacg acggccgagt gatcatctgg aaggaaggaa gcaagcctga tgaatgggca 240
 ctggtacaca cctttgctga gcacaaattc tccgtgaatt ccatcgtgtg ggcgcctcat 300
 gagctgggtc tatgcttggc ttgtggttca tcagatggga acatttcagg cttcactgat 360
 cgttctgatg gaggttggga taccacgcgt attgatca 398

<210> 15960
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-C6

<400> 15960

cttcactgcc gcaaaaatcg catcagaatg aaccagttga aatggatgct aaaccagttg 60
tatatgcaga ggaacgattt gtcgtatgtc ctctagtgc cagtgggatt catgtgcatg 120
ttgaaattgc taaagatggg ctactgctca tttctcctgt gaccggtgaa tgaggaatca 180
gtacggtgct agactggatc agaaatactt tgagcag 217

<210> 15961
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G11

<400> 15961

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cttactctcg accgactctc ctaccacctg cgctccgtac ctttctctcg tatggcgtat 120
acgcgcctac gtatctttgc cttccatcga cttttctact acctggacca tgtcttctgc 180
tttgcttacg gcttcgcggg cgtagcccag gttgtaagcc agccgtacgc cgaagaatct 240
gtagaagatg aatc 254

<210> 15962
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G12

<400> 15962

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gtatccaacc ctaacgatcc ggatcgctt accccgcgtc atccacgcga attgtttcga 120
ttatectcgg atttccccgt ttttttgtgg gtttcctatc ttcttcgatc ggagtgctag 180
ggtttgggcc cgctcgggtg ccgggtactc aaggtcaatc gttagttaga cgggctaggg 240
ggctttttta cggggggaag ggaagcgaat ccaaacaatg gagaa 285

<210> 15963
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G2

<400> 15963

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ccgccgccgc gacgaatctc tggcctccca ctaccgccgc gacgtccagc tttgttctac 120
tccaagggtcc agctctgggt tgccgtcctc cgcccgctact ccacgctact ggatctctag 180
cttgctcgta cgggatctct gtactccacg ctactggctt gagccatggc aaagaatggt 240
tctagggcac tttggaacac tgtgtatgag aaaggctctg ttgatgtgct ccttgaacat 300
aaggacatcc caaagttcaa aagtcaaat ggttggactg ctgagggatg gaacaatttc 360
acaaactagt tcaatgagag gtattctttt tgcccatact ccaaacagca 410

<210> 15964

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G3

<400> 15964

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atccatggca tgcgtcagca ccttccagag ctgccccatt gccagaagag caaagatcaa 120
caccaggtcc aggggcagca gcagtagcgt ggcgaagggg tcaccaccac cagccttcca 180
gttccagtgc agggcgctga ctttcgcggc ggacaccagc ctccggctcg agctggacga 240
gaaccccgag gcgatcatct cgggggcgtg gcccggaac tgctccctcc tcagctacga 300
cgacctccgc gcctacctcg agtcgcagga gacggcggcc catgcagacg atcagcgcg 360
cgtggcgctc ctgaacgaga ccattttcac acccg 395

<210> 15965

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G4

<400> 15965

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cacttttcagt tacgggtact accaaacggg tccgggcatc tatggcatgc agtcatcact 120
cttccatat 129

<210> 15966
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-008-Q1-K1-G5

<400> 15966

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aaggccaaaa ttctgtacat gaacagtctt gtcagagcca tgactctgtt aaagaaattg 180
atgggtatgg tcagccagat aagaatacaa acacaggaga tgaggataat ctttgtttca 240
tatcctccaa atcatttcag agaacaagaa agaaagatac caaacagcag aaacactact 300
tcacaacgaa aaatgcttca caggctccat tgtcattttg gcctcactgg gcttatgaga 360
tgtatgattc gtattcactt tccaggagag ctgcaggaaa actctatatc tntatattat 420
agagagataa gt 432

<210> 15967
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G6

<400> 15967

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gtcgtgcct acgtgccag tcctgttcgt cccttcgccg gcgacggcca cgacctggtt 120
ataggcaaag tttgtcctga actgttcac atgggtggaag gctgggtatt ctctgctttg 180
ttagtggtgt ttctagcgtt cacaacacct tgtgagtcac tctacttgcc aggtgggttat 240
atgcacacat attatcaagg tgaagtatta agggctaagg tgaacttctt t 291

<210> 15968

<211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-G7

 <400> 15968

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 ggcaagccag tgaaggggct tggcctgggg atggggcggg agcgcgcaag ccagcggagc 180
 atcacgtgcc aggcggcgag cagcatcccc gccgaccgcg taccgacat ggagaagcgg 240
 aagctgatga accttctect cctgggcgcc atatcgctgc ccaccgtcgg catggtcgtc 300
 ccctacggcg ccttcttcgg ccccgccggc ttcgggaacg gcggcgggcg gacctacgcc 360
 aaggacaagc tgggcaaaca catcac 386

<210> 15969
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-G8

 <400> 15969

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 gagctggagc gcctctacgg cgagatccac ctgctcaagt ccttcggcca ccgcgccgtc 180
 atgcggctcc acgcgtctg ggccgacgcc gccgcgcccc gcctcgccgt caacttcgtc 240
 accgagctct tcacctccgg cacgtgcgc cagtaccgcc tccggcacc gcgggccggc 300
 gccgtcggg tccggcactg gtgccggcag atcctcgacg ggctcgcta cctacacgcg 360
 cgcggcgtca tccaccggga cctcaagtgc gacaacattt ttgtcaa 407

<210> 15970
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-G9

<400> 15970

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cccgccaccg tcgaccteta tgccgaccgc gccaggcgc acatcaagct cggcaactac 180

actgaggctg tggcggatgc taacaaagca attgagcttg atcctatgat gcataaagct 240

tactaccgga aaggtgctgc atgcattaag cttgaagaat accaaactgc aaaggctgct 300

cttgagttgg gttctttctta tgcatcaagc gattcaaggt ttgctcgtct attgaaggaa 360

tgtgatgagc gcatcgctga ggaatctagc caggcaccag taaagaatgt tg 412

<210> 15971

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-008-Q1-K1-H10

<400> 15971

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cctggtgccg gaagctctgg gcctgggcaa ctgggtgaag gcgcacgagt gggcggccgt 180

ccccggcggg caggccacgt acctggggcg cccggtgccg tggggcacgc tgccgaccat 240

actggtgatc gagttcgtgg ccacgcnctt cgccgagcac cagcgcacca tggagaagga 300

ccccgagaag aagaagtacc ccgggggggc ctt 333

<210> 15972

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-H12

<400> 15972

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ttcttgaaat ttctttcacg agtggcagta gccaaactgt ggtaacgtca ttctaggctt 120

cctgtagccc cttttcgaga ccttgccgaa ttattgtcct ctccctgtgc gtgtg 175

<210> 15973
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-H2

 <400> 15973

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 caccacggcg gcggcggcgg cgtcgctgct gctgctgctg ctctgtctcg tcgccgcggc 180
 ggcggacatg tcgatcgtgt cctacgggga gcgcagcgac gaggaggcgc ggcggatgta 240
 cgcgagtggt atggcggcgc acggccggac ctacaacgcc gtcggcgagg aggagcggcg 300
 gtaccaggtg ttccgggaca acctacgcta catcgacgcg cacaacgccg tcggcgacgc 360
 gggcgtccac tccttccgac 380

<210> 15974
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-H4

 <400> 15974

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 aataaccttg ggtgatcgtc ttggcgatct ccttgatacg atgagtgcgc taaagaactt 120
 ggggctaaat gttgttaaag ctagtgtctg tctcgattct actggcaagc atatcaagtt 180
 tgctataact agagcggttca ctggccgtaa aattgatgat ccagagttgt tagaagcagt 240
 tcgactgacg atcattaaca acatgataca gtatcattcg gaggccagca gtcaattggc 300
 tatgggggca acttttgggc cagaagcctc tacggaagag gttgatgtgg atatagcaac 360
 ccacattgat atcta 375

<210> 15975
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-H5

<400> 15975

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atattcaagat gatgaagaga tcgtggagac tgagaacgtg gcatcgggtt ccagcacgtc 120
aaagctggca gttgcaaagc tgatcgatgg atatcttgct gaggttgcca aggatcccaa 180
ccttcctctt ccgaagctga ccgcgcttgc tgaaatgggt tcttcctac cccggccaac 240
gcatgacggc ctctaccgtg ccattgacat gtatctgaag gagcaccca gcctgtcgaa 300
gagcgagaag aagaaactat gggggtgat ggactgcaag cagctgtcgc aggatgcgtg 360
tatgcacgcc gtgcagaacg agcgtctccc cttgcgtgtg gtcgtgcaag ttctcttttt 420
cgagcag 427

<210> 15976

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-H6

<400> 15976

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tgtggccccc ctttgccgag acggcgcgga cgccccgtcg cccaccccga tggctgccac 120
tctcctccac gccggcaacc cctcgtccca gagctcgtct tcgcccgcac gcgcggggcg 180
cgtcaccgcc tttcaccccc tcggtccac cccatccata cgccttgccg gtcctcgtt 240
ctcgtccaat cgccgtctcg aggtttcact ccgggcgggt tcggccggtc accgtttcgt 300
gggtagggga gcaccccgga gccgtcgcgt cgtcgccgcc ctagcagggg agcaaaactgg 360
gggttccgag gtgggcgatg ac 382

<210> 15977

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G10

<400> 15977

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 tcgtctgaca ccattgacaa cgttaaggcc aagatccagg acaaggaggg catcccccca 180
 gaccagcagc ggctcatctt tgctggcaaa cagcttgagg acggg'gcac gcttgctgac 240
 tacaacatcc agaaggagag caccctccac cttgtgctcc gtctcagggg aggcatgcag 300
 atctttgtga aaaccctgac cggcaagact atcacctcg aggtggagtc ctctgacacc 360
 attgacaacg tcaaggccaa gatccaggac aaggagggca ttccttcaga ccagcagcgg 420
 ctcatctttg ct 432

<210> 15978
 <211> 253
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-008-Q1-K1-E5
 <400> 15978

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 cgtggtcatc tgetgcgggc gcggtggtggg cgcgtgcacg gcctactttc ttgccaccca 120
 cgccgtgttc cccaccgttc agacgctcgt tgagaggtgc gccccggcgt gcgccgactc 180
 agggaaagcc tgetgcttcc tggcgctgga ctggtgcgac tccactccgg ctctttccag 240
 gctcgcgcgg gcc 253

<210> 15979
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-008-Q1-K1-E6
 <400> 15979

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 caagaacgcc gtcgaggctg gtgcttcgtt agagtcctta tccagaggag ctgtatgttt 180
 ttcccgtaaa ttcactcttc atgaaatata ggaccgctgg aattcattgc tatatgatcc 240

agatatctca acacaagcag ctttttcggat ggctgagtat gagaatgaac tttctacttg 300
 cgatccatcc aaagcacatt aacttttgaa cttagaagct aaggattttt tatttcagaa 360
 accgaaaatt taccgtggaa tagaatt 387

<210> 15980
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E7

<400> 15980

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 atgagcgtgg tgatcctgga cggtccacg gtgcgcggct tcgtggcgga cgaggcggcc 180
 ttgcgcgca gcctggacgc gcgcttcgcc gcgctggacg ccaacggcga cggcgtgctg 240
 tcccgcgccg agctccggcg cgcgctcgag tccttcgcc tcctcgacgg cggcggcttc 300
 gggccgccc agccggcgcc gctccccgcc gaggtcgccg cgctctacga cgccgtcttc 360
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 c 421

<210> 15981
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F10

<400> 15981

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 cctccccac tccaccccc aacaccgcac ccaatggccc gatcaccgac ctctcccca 180
 cctccccgg cttttcggac ctctaccctc ccgctcccaa ctccactgca catctctcct 240
 ggggcctcct ccgcccgtc ctctgccgct ccgacgcgct cccgggaacc tctgcaggcg 300
 tcctcgaggc agccgaagcc tggcggaatc tcaccctggc tgtcaccgcc gcggcaagcg 360

aggaggaagc gcgtctccaa ggactccgct gctcatcggc cgtgggaggg gatctacgca 420
cgggacgtgc cacacttcc 439

<210> 15982
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F11

<400> 15982

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tgatgtgcat agttgcatac tttgatcatg gaacgatggc tgaagaaacc accttgctgg 120
caaattcgta tggaagaaat gaaggaacca agggcataca tcatggaaga aagctgatgg 180
acaatagtat tggttcaaac cgtgagtatt caatcgatga tatgtctcat ccaaaggcac 240
cacatactga gctcaagcaa cctcatact tagctcctgg ttgctcaagc aaccctctca 300
agcaaccctc atacttagct cctgggttgc ttccctaaag ttcatgcata catatatagc 360
cttccactca tcatatgctg gtatccgatc tatatataga cacatatgat atgttgcata 420
tcgccagggt cttagatca 439

<210> 15983
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F12

<400> 15983

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actcgagtta gacaagacat tactccgtat tatttagaat taggggcttc tgattggtcg 120
tactcatggc aatgttggtg cctgatctta gtttctcggc atcgatctct agtgtgaaac 180
ttccaaagta cggggcatca aagagtgaga ctttctttgt taaaagcccc caacattccg 240
tgcaaaagct aggccagcgg aatctggcaa atatggtact aataatggcc ggccaccaaa 300
aatggtccca acacttgagt taaggaggac cagtgggtgt ctttgaagat cagggacagt 360
taa 363

<210> 15984
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-F2

 <400> 15984

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 cttcttcgac ttcgtggttt ctgcatgaca cctactgaaa ggttgtagt ctaccatac 180
 atggctaacg ggagtgtggc atcacgttta cgagagcggc agccatctga gccacctctt 240
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 gatcactgcg atcccaaaat catccatcgg gatgtcaaag ctgcaaatat tcttttggat 360
 gaagacttcg aggcagttgt ggggtgatttc gggcttgcca agcttatggg ctacaaagat 420
 acccatggta caaca 435

<210> 15985
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-F4

 <400> 15985

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 gacggccaac cagatcccc tgccgagac gggcgtcccc tgcccggacc ccgacgtgaa 180
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 gcggtgcgag caggtgagcg tgacggtcac gggccacagc ctgggcagcg cgctggcgat 360
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<210> 15986
 <211> 269

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-008-Q1-K1-F5
 <400> 15986
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 gtggagtcgt cgtcggcggc ggcggcgggc aagagcgtgt gcgtgatgga cgccgcgggg 180
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 acgtacgccc gcgacgggga ggagggcgc 269

<210> 15987
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-008-Q1-K1-F6
 <400> 15987
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 cctgaacaag gccgaggcgc gggacaagat ctgccgagcg atccagtact ggtccaagtt 240
 cattagcaac ggcgagccag ggctgtgca gaacgtgtac aagttcacca atctgtcccg 300
 gaaagtgttc cggctttgta aagttgtcaa cgatctgcac gctttgatca gtccttc 357

<210> 15988
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-008-Q1-K1-F7
 <400> 15988
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 aacatcccca ttgtcctctg cggtataaag gttgatgtga agaacaggca ggtcaaagcc 120

aagcagggtta ctttccacag gaagaagaat ctgcagtact atgaaatttc tgccaagagc 180
aactacaact ttgagaaacc tttcctgtac cttgcaagga agctggctgg tgatccgaac 240
cttcactttg ttgaagctgt tgctcttaag cctccggaag ttaccatcga catggctatg 300
cagcagcagc atgaagctga gcttgctgca tcagctgcac aacctcttcc tgatgacgat 360
gatgatctga ttgaatagaa aggatcatga gtcttggact ggaacagaat tgtgccttgc 420
acgatttaaa ttt 433

<210> 15989
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F9

<400> 15989

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gtttatgaag ttgaactcat tggatttgat gatgttaaag agggtaaatt ccgaagtgc 180
atgacagatg aagagagtat tgcagctgca gacaggagaa agattgaggg caatgcata 240
ttcaaagaaa tgaagcttga ggaggccatg catcaatatt aaatggccat tgcatacatg 300
ggagatgatt tcatgtttca attatttgga aagtacagat acatggcctt ggctgtgaaa 360
aatccatgcc atcttaatat ggcttcattg cttgatcaaa ct 402

<210> 15990
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G1

<400> 15990

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gggctgctg cgctgagggc gaggagcgag agggtgcggt gcagctacgc caaggacgcg 180
gccccagtca gcaccaaggg cgcaggcgcg tcgctgctcg ccgcagcggg cgcggtgacc 240

gcgtcggcgg ggcccgcgct ggcgctcgtg gacgagcgca tgtccacgga gggcaccggg 300
 ctgagcctcg ggctcagcaa caacctgctg gggtagatcc tcttgggggt ctccggcctc 360
 atctgggtccc tctacaccat ctacacctct gacctcgacg aggacgagga g 411

<210> 15991
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E3

<400> 15991

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 gtctgagtct gtcaaggatg ccatctccca gattgttggg gatgccaagg agaagaatag 120
 gaagttcact gagactgtgg aacttcagat tggctcgaag aattatgatc cacataagga 180
 caagcgtttc agtggctctg ttaagttgtc ccatattcct tgttccaaga tgtatgtgtg 240
 catgcttggt gatgcccagc atgttgagga ggcctagaag atgggacttg actacatt 298

<210> 15992
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-C8

<400> 15992

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 tgagcgccaa cgccgccacc ttcaccatca ccaacaactg cgggttcacc gtgtggccccg 180
 cgccaccccc ggtggggcggg ggcacgcagc tgaaccggg cgggacgtgg accgtcaacg 240
 tgccggcccg caccagctcc ggccgcgtgt ggggccgcac cggctgcttc ttcaacggca 300
 acagcgggag ct 312

<210> 15993
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-C9

<400> 15993

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ccctccgcgc cgcggaaactc ctgccggagc tgctcccgca cgtgcttgcc aaggtggagc 180
tcgtcagcgg cgacggcggt gttggtacca tcttgagct aatatttct cccgggattc 240
ctggggtaca gagttacaag gagaagttca tcaaagttga caacgagaac tatatcaagg 300
aggcagaagc cattgatggc gacattttga agctgggggt cgaggcatac atgatacggc 360
ttgagatcat tccaaaaggg gccaatcgt ctgtcatcag gtcgactatc g 411

<210> 15994

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D1

<400> 15994

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gatcgaatag atgttcacaa tagattcaga cttcgtctct atcgcccatc aactgttacc 120
acggaatata gagaacatgt gaaagatctt tcttgctgtt caaaagattt cggcaggatt 180
gtcattgtcg acaacaatcc gttcagtttc attcttcagc ctttgaatgg aataccttgt 240
gttccatttt cagctggaca acattctgat gaccagctca tgatggttat atttccactc 300
ctgaagcatc tttctctcca gaaagatgtc agacctgtat tgcataaag gtttcatatg 360
ccagaatggt tccaaaagca tgggatcccc caaact 396

<210> 15995

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D11

<400> 15995

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taccgctcca gaaatgaaat ggggtgatga tggcgtgaag ttacgttcgg ctgccgtatc 120
tctatcgatt tcatgattta ttgtgcaaaa tataacaact aaaaaaatgt gatacaactc 180
tcggattcag cggttcgcac agagggatct attactggtc tagtcattga aagaagggtta 240
atagttgggt tagtcgacaa aagcgacaaa agcactggat gagactgcaa ggtttcagtc 300
aagtctgtaa acaattttgg aagtggatat gtattgttat gaagactgca ttatgattga 360
aatttataaa tattattat 379

<210> 15996
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D12

<400> 15996
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gccaaaggggt tctggttagg caaagacgag gttggcaagg ccaaagcatt cgatgagaaa 120
catggcttca cattcacagc cgggtgtaca gtggcctcaa ttgacaagaa gattgggctg 180
actgataaga tcacgacagg cactttcttg gttagcggga aggtgaaaga gatggaccag 240
aagttccagg tcttcgacaa gaccaagtct gcactcgctg ccgccgagca gaaagtgagc 300
agtgccgggt ctgccatcat gaagaacagg tacgtcttca ccggcgcgctc atggg 355

<210> 15997
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D2

<400> 15997
agcaaatgta acttgaatac gataaaaaca aaagtatcat tttcactggc ctggacacct 60
gatgactgac tgaatttatt tctgagttta gaaaaggaca agctctgcag tttaactggt 120
tgtatgagaa aggggctttt gtgttgcagt ctgacggaaa attctcagtt gattttacaa 180
tggttgagga tgctgtagaa agcctgagca gggagatact gacaatacag gcaaagggcg 240
ataagccttc tgcccaatct cttctccagt cccgtgcaac attgacacaa ccattgagaa 300

tggcattgga gaggatagag cacatgcagg tacctgttga catagccccg gtattcagca 360
 cggcaaacaa gctatttgca gacatttaac tatttgggct cagaatcggt gtgc 414

<210> 15998
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D3

<400> 15998

cagccgtggt actgattaca agggaagtat gcatgtgccc tcttgcacat ctataaatgg 60
 aacatcagca agttgagtga tgaatgggtt gcagatgaag aaaaagtccg ccataactgtt 120
 ggcttacttt tgaatggaaa tcatgagccc ggctctagga agctaacctg tggaatatgt 180
 tgtgaagggt attcttctga tacgatgagc tctgctgggt gcgctcattt ttattgccat 240
 gaatgttggg aaggctacat tagcgtgct ataggtgtgg gtccaagatg tttgtctttg 300
 cgatgtcctg atacatcatg tagtgctatt 330

<210> 15999
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D4

<400> 15999

gcgccgcgac gtccctcgcc ttcgccttcg aatccgagac tccgatctcg gggtcaccgc 60
 agcgcacaga gcagccccga ctcccgcccc gatccgcgct ctctctccg tcgcttcagt 120
 catggcagga atggcacctg agggttctca gttcgatgct aagcactatg attctaagat 180
 gcaggagctg ctgagcaccg gtgagactga ggagttcttc acttcatatg atgaagtttt 240
 tgagagtttt gatgatatgg gcctccaaga gaatcttctg agaggcattt atgcttatgg 300
 ttttgagaag ccatctgcaa ttcacacagag aggaattgtt cccttctgca agggctctga 360
 tgtcattcag caagcacaag tctggtacag gaaagacagc tacct 405

<210> 16000
 <211> 402
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D7

<400> 16000

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ttgattctgt agaggggcct atgccacaga caaggTTTgt tctgaagaaa gctctagaat 120

ttggacatgc tgttgttgta gttgtaaaca agatcgacag acctactgct cgtcctgagt 180

tttgtgtgaa ttcaacattt gaactattta ttgaattaaa tgcaactgat gaacagtgtg 240

atttccaaac agtctatgca agtggaatta aaggaaaggc cagtctatct tctgacaatt 300

tagctgatga cctaggaccc cTTTTtgagg caattcttag atgcatacca gagccacgcc 360

ttgagaaaga tggTgcccTg ctaatgcttg tatctaatac tg 402

<210> 16001

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D9

<400> 16001

aaaaatatcc ccaaacccta gctcccgatc tcgatggcga accctcgcgT cgtcttcgac 60

atgaccgTcg gcggcgcccc ggcgggcccg atcgTgatgg agctgtacgc caacgaggTg 120

cccaagaccg cggagaactt ccgcgcgctg tgcacgggcg agaagggcgT gggcaagtcc 180

gggaagccgc tccactacaa gggctccacc ttccaccgcg tcattcccga gttcatgtgc 240

cagggcgggc acttcaccgc cggcaacggc accggcgggc agtccatcta cggcgagaag 300

ttccccgacg agaagtTcgT gcgcaagcac accgaccccg gtgtgctctc catggccaac 360

gccggggccca acaccaacgg ctccaattc ttttatctgc accgtcgcga accccttggt 420

<210> 16002

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E11

<400> 16002

gacgcgcggg cgataccgta tagtcgcttg aggacggcca aggaaggatc tagcccaagg 60
agccctcctt ggcgagagagc cgcttgagga actcgtaggt ggtcaccatg gtggccgctg 120
acagcgacat ggacccccac ctggggccca gccacggta gcacgccgcc cagccggcct 180
acttgagcag cccgcgcacg gtgctggcca gcgtggggccg cggcgccgcg tcggcctcca 240
tcacctgcag ccgcgtcttc acggtgtcca gcggcatcgt caccagcgcc gcggtgcccc 300
cggccagggc cgcgctcgcg ccctgcacgg tcatcaggca agcgcagctc tcggagcgct 360
cggtccccac ggcgcgcca 379

<210> 16003
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E12

<400> 16003

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caccacgca caggttatg ggccactagt ccggaccccg gaggagccaa gccatggcgt 120
ccacctctg ctgcctcttc caccagtcaa ccgcccgcct cggcgcgctcg ccgcgcctgg 180
ccgacgcccc gccgcgcagc gccagctgc tcgtctgcaa ggcccgaag catgaagccg 240
tcgcggacca tatcgacgtt tcgcgcgct ccgcgctcgc tctcctcgcc ggtgtatctg 300
ccggtg 306

<210> 16004
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E2

<400> 16004

ggacggcatg aagattgctc atgaggagat atttgggcct gtgcagtcga tcctcaagtt 60
caaagacctc aatgaggtta tcaagagggc aaacgcgagc cagtatggat tggccgccgg 120
cgtgttcacc aacagcctgg acacggccaa caccctgacg cgcgcgctca gggccgggac 180
cgtctgggtg aactgcttcg acgtcttcga tgctgcgatt ccgtttggcg ggtacaagat 240

gagcggcatg gggagggaga agggcggtga cagcctgaag aactacctgc aggtgaaggc 300
 ggctcgtcacc ccaatcaaga acgccgcgtg gttgtagacg ctgcaagtgt ggccttgtgc 360
 acgagaacca cgtatattca tttcctgggc acattcccga acaatgtgaa gcgt 414

<210> 16005
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-C6

<400> 16005

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 gaggcacgcg cttgtatggt ggcagattgg ccactcgtac tcgttcccgc gatttagaac 120
 atctgtttgg cagatatgga agaatacgag aagtggagtt gaagcgtgac tatgcattta 180
 ttgagttcag tgatcatcgc gatgctgatg aggctcgata ccagctagat ggcagggatg 240
 ttgatgggag tcgtattggt gttgagtttg ctaaaggggt cccacgtggt tcatgtggct 300
 cacgtgaata tattgggaga ggcccttcac caggttc 337

<210> 16006
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B12

<400> 16006

gcctcgcctc gcctcgcgtc gtctcacctc acctcacctc gccgactagg gttttgtacc 60
 gccgtggatc tcgccgtccc cgccatggac gtctcgcacg cgggatcctc cgtcgccggc 120
 gaggctccga ccaccgggga gcaccggatg gggactacca tcgtcgggggt ctgctacgag 180
 ggcggcgtcg tcttgggcgc cgattccagg accagcactg gaatgtatgt agccaaccgt 240
 gcttcagaca agattactca actgacagac aatgtgtatg tctgtcgcctc tggatctgct 300
 gctgatacac aagtcatttc ggattatgta cgctatttcc tccaccaaca cacaatccag 360
 cttggacaac cagctaccgt taaagttgca gccaaactga ttaggttgct agcttatcag 420
 aacaagaaca tgttg 435

<210> 16007
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B3

<400> 16007

cccacgcgctc cgcgggacgcg tgggcaacac acacagagag aggacaactc ctcacaactc 60
 tcccttccct cctgtagggg ccaaaagggt tagagagtaa gagaagtagt tcattccctt 120
 gcccaacaca cgaaaacaag ctctcctcat caccctaact caagcaactg cttgtgtggt 180
 gggaaattct tgtgacctt gctatattat tatcctgtga gctactagct tcattccccc 240
 ctttgtaccc atcagatggc tggcatgttt ctgcaacacc cctgggcggt cgctttcggt 300
 ctactaggga acgtcatctc attcatgacc ttcttgccc cgataccgac gttctaccgc 360
 atttacaaga tcaagtcgac ggaaggctgt cagtcggtta ccta 404

<210> 16008
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B4

<400> 16008

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 ctgagtgtga gtgagtgatc gagctagctg agctccgatc ctcgctagct aggataccgc 120
 cataccacaa gtcttcttca caagtttagg agtgacagca acaagagatc gatggcctct 180
 gccaccgtgc tcaagtctc ctctcttccc aagaagtccg aatggggcgc caccaggcag 240
 gccgccgcgc ccaggccgcc caccgtctcc atggctcgtc gcgcctccgc ctacgccgat 300
 gagctcgtga agaccgcgaa aacgatcgcg tcgccggggc ggggcacccct ggcgatggac 360
 gagtcgaacg cgacgtgcgg 380

<210> 16009
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-008-Q1-K1-B5

<400> 16009

cagacaagca aggaatcccc cgatggetca tcgcgttctc ctctctctct ctctcgcgtc 60
 ggccgccgcg gttgccgcgc cgcgcgacgc ggaggaccgc ctgatccggc aggtgggttc 120
 cgggtggagat gacaacgatc tggagctgaa cgcggagtc cacttctga gcttcgtgca 180
 gcggttcggc aagtcctaca aggacgccga cgagcacgcg taccggctgt ccgttttcaa 240
 ggccaacctg cgccgcgcgc gccggcacca gctgctggac ccgtcggcgg agcacggcgt 300
 cactaagttc tccgacctca cgccggcaga gttccggcgg acctacctcg gactnccgaa 360
 gtcccggcgc gctctctca gagaactcgg ggagtcggcg cacg 404

<210> 16010
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B6

<400> 16010

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 cctctcgccc ctacatctcg tattccccct cgacgcgtca gcgaggcggc tgcgccttcg 120
 ccggggcgccg ccaccttggt cgcccaagtt cggcaagttc gacgcctccg acgccccggc 180
 ggaggccgag gagggggggg gcgcgacgga tgggtgggctg gcgcagcccg tggaggagga 240
 cgacagttgc ttgccatcgg atttgagggg cgcgattcgg cagtcaggga aggcgagcgc 300
 agatttcgta aactccggag gcatgcgagc tatcgcagaa ctgctgatcc ctgagttgga 360
 attcctcaac gaggaatgag cacaggctga actttgggcg ttgtcaaaga ttttctggac 420
 acact 425

<210> 16011
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B8

<400> 16011

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atggtgggcg tcgacagggc caccgtgacg cggctggggc ccccggtatga cccggcggcg 120
ccgtgcgcgg tggcgcacag cgtgccgggc gtgctgttcg cgctcggcgg gctcacgggc 180
aactactggc acgacttcag cgacgtgctg atgccgctgt acgccgcgtc gcggcggtac 240
ggcggggagg tctgttctt ggtcagcaac atgcagccgt ggtggctggg caagtacgag 300
gccgtgggtgc ggcggtgtt caggtacgac gccgtggacc tggaccggga cgcgcgggtg 360
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<210> 16012
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-B9
<400> 16012

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cttcgttgtg tacgaaaaga agggaggggtg tttttcacct tcgggtcaaa aaatacaagt 120
ttcgtccaca tcaaagcatt tcatacatcg atggaaaggt aaaaatatat tacaagggtat 180
ggacaaagtt acaatattct ttataacgga taatacaaga atttttctta gaatctttcc 240
acagttagat attcgagctt catcatcatc tgttgagctt cggattgtct gctaaagcttc 300
ggctttgtgt tcttcggctt cgtcatcttg tacatatcaa agcattataa ggaaaattca 360
agtttcaagg aaaaggtaag cacaagggtat gattttatta ccggcttaag atgacttcga 420
gcttcatcac cag 433

<210> 16013
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-C1
<400> 16013

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cctctcgcca tcttccccag aattccgacc cgctagatcc gcaccctgtt ctttcgcctc 120

gctcctcggc acctgcccgt ctcccatggg ctcttgccgc cgctgacact ggggcccac 180
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ctcctattgc ctccactaaa cctagccgac cgcctccgcc cgccgacatc ggaagcccta 300
gttgctgcgg gaaccgccc tgcggcccgc cgctcctccg cccaagtgt ccctggtttc 360
ttggatgcac cgactgctcc gatggatgcc cctgcccgcg ccgtggagat ccggaagtc 420
tgggcgagca 430

<210> 16014
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-C10
<400> 16014

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ccgtgccaat cgggtacacg agcagggcgg gggatgacgt cgtcggcgtc cgcgccggcg 120
tccaatggac cgcgctacgc gccgccggat ccagcgctgg ccaagccgcg gagggggctc 180
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gaggagaggc cgagaagcag cacaccttcc gagcggagct cggaaaccac ggtgagccgc 360
ccgcagtatg cacctgtctt ggataacagg gctagggatg accactcgga g 411

<210> 16015
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-C11
<400> 16015

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gggccgaaat atatgcaaaa aattatcaca agtcacttga ccatcgtagt ttctatttca 180
agcagcaaga tacgaagaac ctgagcacia agtctctcct gacagagata aaagaaatta 240

atgagaagaa aaggaaggaa gatgatgtgc tccttgccat tgctgctgga aataggcggc 300
ctatagttcc caatatgtca ttcgagtata tagactcgga aatccatgaa gatctacata 360
aatcattaa gtactcctgt gctgaagtct gcaactcttc agatcaatta gattaagtga 420

<210> 16016
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-C12
<400> 16016

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ggccgccgcg gttgccgcgc ccgtcgacgc ggaggaccgc ctgatccggc aggtgggtcc 120
cgggtggagat gacaacgacg tggagctgaa cgcggagtc cacttctga gcttcgtgca 180
gcggttcggc aagtcctaca aggacgccga cgagcacgcg taccggctgt ccgttttcaa 240
ggccaacctg cgccgcgcgc gccggcacca gctgctggac ccgtcggcgg agcacggcgt 300
cactaagttc tccgacctta cgccggcaga gttccgcgcg acctacctcg ggctccgcaa 360
gttccggcgc gctctctca gagaactcgg ggagtctgct cacgaggcgc ccgtgcttcc 420
caacgatggt cttc 434

<210> 16017
<211> 216
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-C2
<400> 16017

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acacctgcgt ggtggatata tgtgtgtacg acatgctgat ttgactcggg agtatctcgg 180
gattgtacat gatacgacat catcaacctg ctgatg 216

<210> 16018
<211> 405

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-C3

 <400> 16018

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 agacttcgtg atggctgctg cgaagtcggg cgtagacgtg gaaacgaggg acggcggcgg 120
 cggctccttc agcgaggaga ggtttgttga taagctcaac aagctcaaca acacaacagc 180
 gagcattcag acactttcac attggtgcat ttttcaccgc aagagggcca gaaggattgt 240
 ggacacatgg gaaaagcatt tcagtactgc aacaaatgat aagaaaatat cattcctggt 300
 tctatcaaat gatatcttgc aaaacagtta gcgcaaggga ggagattatg tgcattgagtt 360
 ctggaagggtt ctaccagat tattgaaaca tttttacgaa aatgg 405

<210> 16019
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-B11

 <400> 16019

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 gggatgaagc agtaccgcc gccgcagccg agcggcatcc tcgacacctg ctttgacttc 180
 agcggccagt ccagcgtcag cataccgtcc gtcgcgctag tcttctccgg gggcgccgtt 240
 gtcagcctcg acgccagcgg catcatcctc agcaactgcc tcgccttcgc gggcaacagc 300
 gacgacagct ccttgggcat catcggcaac gtgcagcagc ggacgttcga ggtgctgtac 360
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<210> 16020
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-007-Q1-K1-H5

 <400> 16020

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 cttctgcccc gatccgcagc ggcaagcgga gatgaactgc gagacctgtc agctgaaaga 180
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 cttccataga accctcagcc tggttcgccc caaagatgtt gactgtgatt tcttcgatat 300
 tacttatgta caatgtggtc taccggaact agaaaaggaa gttgacgaaa agatagacca 360
 gttcagtgca tgggtggaga aacacccaaa ccgcagaagc cagatctgcc tctccttttt 420
 cgacgagaaa cacagacacc ctg 443

<210> 16021
 <211> 245
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-H6
 <400> 16021

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 caatctgggt agaggattga aatacatctg aaggacatga tatatgatga ttaactcagt 120
 taatgatgaa gggcccgat ctgaccaga gaaatgggaa gagctattca gatctgctcg 180
 gtcagactag tggcattctg caaagcgtag taacgtaatg taagacattg catcgtaata 240
 caatg 245

<210> 16022
 <211> 79
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-H7
 <400> 16022

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 gccttatgtt cccacatct 79

<210> 16023
 <211> 401

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-007-Q1-K1-H8

 <400> 16023

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 gagagcctga gcgtgcgcga ggagctgaag aagcagctat ggctggctgg gcccattgatc 120
 gccggcgcgc tcttcagaaa cgtgatccag atgatctccg tcatgtacgt gggacacctt 180
 ggagagctgc cctctgctgg cgcattccatg gccaaactct tcgccaccgt caccggcctc 240
 agcctgctgc taggcattggc aagcgtctta gacacactgt gcggccaagc gttcggcgcg 300
 aggcagtact atctcctggg catctacaag cagcgcgcca tgttcctgct gaccctgggtg 360
 agcgtccctc tgtcagtggt gtggttctac accggcgaga t 401

<210> 16024
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-007-Q1-K1-H9

 <400> 16024

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 cagctcgccg ccggttcacc gccgctctt ccgtccaatc cgctcccgcc acaaccttgg 180
 ccccgggccc cgccacatcc tccatctctt ccatccgcga gtcgctctc tcaggcgaga 240
 ggaccgcggc ggacatcacc tccaggtacc tctccgcct ccgccgtacc gagccgacct 300
 tgcgcagctt catccacgtc gcggacgcc ccgccgagcg ggaggcggag gaactcgacc 360
 ggaggattgc ctccggggag aaggatgcgg tgggtccgct cgctggagtg ctggtgggag 420
 tgaaggacaa tct 433

<210> 16025
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-A10

<400> 16025

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aacgggacaa agctggaccg gaggctgtac atgagtgtcc tgagaagcct ccgcgatgcc 120

gggctggagg ttcattgtgaa gtggctccag agtaacttca ccttcattgga agagaaaact 180

tgatgccagg tgcaggtaact tgttctctgtg cagcatatt cagcaccctaa gtatatcggg 240

cgcctgaaga aaaccttctg ctgtacatgg aaaccgaaaa aaaaggtaaa tatttgcttg 300

cctcagtgtc ccattccgaa gcttgtacgc tattgtgtga caattccggc attcattggc 360

tcaagtgaat agcgatgtaa atgtatttta agggaagcca actttgtacc agttacgac 420

tgatt 425

<210> 16026

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A11

<400> 16026

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ggacagcact gtggccaagc agggcgcggg agatcgtacg ccggcgggcga ggtcctgcgg 120

tggcgggcct cggcagagtg gtgggtgctag cggagtgcaa ctgttgggtt ggtgggtaag 180

agtgagaagg acatgaaagc gctgcggcga tccagcacct tgtgctcgcc gacaggcgtg 240

tcctatcctt cgtactcacc gaggatccac attcggacgc tcctcgccga cgctcgtgtac 300

tcgtgctcgt cctgcttcat agcagcggct gctgctggga gcgcgggtggc tgtggtgt 358

<210> 16027

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A12

<400> 16027

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gatgtcttgc aactgcggat caagctgcgg ctgcggctca agctgcaagt gcggcaagaa 120

gtaccctgac ctggaggaga cgagcaccgc cgcgcaggcc accgtcgtcc tcggcgtggc 180
cccggagaag aaagccgcgc ccgagttcgt cgaggccgcg gcggagtccg gcgaaggccg 240
ccacgcctgc agctgcggta gcagctgcaa gtgcgacccc tgcaactgct gatcacattg 300
atcgacgacc atggatatga ttattatcta tctagcttgt ggtggtgggt gaacaataat 360
aagcgaggcc gagctggctg gcatacatag gtattgtgtg gtgtgtgaga gagagagaga 420
aac 423

<210> 16028
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A2

<400> 16028

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gcgggtctta tgcaatcgat cggatcatat agatatccct tcaacacaac atagggtcatc 120
gaaaggatct cggacgactc accaaagcac gaaagccagt tagaaaatgg attcctatatt 180
gaagagtgcc taaccgcatg gataagctca cattaacccg tcaatttttg atccaattcg 240
ggatttttct tgggaagttt cgggaagaaa ttggaataat atcgattcat acagaggaaa 300
aagttctcta ttgatgcaaa cgctgtacct agaggatagg gatagaggaa gagggaaaaa 360
tcgaaatgaa ataaattaag aataaagcca aaaaaataag tcgaagattg aagaacccaa 420
attcaaaatg aagaaatggg aa 442

<210> 16029
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A4

<400> 16029

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tacaatacaa cataaattac cccctctccg ctgcgcggtt ctactgcaac acgtgattca 120
cccacatcac gttagcgaat gctatactgc tgaggctact accaactcca gcccaaccac 180

gttgtcaaac ttgcacatta ggcttagttt gggactctg gtattgacct caatccactt 240
gcattgagga ggattgaggt gtaacttaga ctaatatata ccgcaatcca acttaacaca 300
tgaagatagg ggtcaatgct agagtaccca aacaaagtct taagtggcca ttcaagtcac 360
ccaaaatact tt 372

<210> 16030
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A5

<400> 16030

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tatgccaaagc ttatctctct ttttgatggg ttgattgaag cacctgcttc gagacaaatc 120
agaattgatg gggctctcaa gggtggacag aaacgtggaa gattggttgc agatctagaa 180
gaagatgaac aacctaaaaa gaaagttata ttaaggagcc tagcggctca atggatttca 240
gtttataatg cttgggtggcc catgaagcat aagtaccatt acaatgtggc ttgactcgag 300
gctaagcatg atgggcttta cattaacaac gtggcttctt tggcaaacct ttgggcactc 360
atcatggacg caggaactgg ttcc 384

<210> 16031
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A6

<400> 16031

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tgatgagaaa gactatcaaa gtgaacgac ccctgagata cggaggggtc accatctatc 120
agacagactg gggattttca gcattgcaag tgaagaaaaa tggatgaaggc cttttcaatt 180
tggcgatggc ccccttgaaa ctgaatgggg ataagaagct ctttggaaca ttcttgccac 240
ttgaagattc agactcgctg aatccaaatg tcaaaggaat atcaatgctt gctcgagatt 300
tgcagtctat tgtgttgtat gatcaagatg gtaagtttgt aggggtccgt cggccaagct 360

caaaaactgcc tattgagatc aatggcaatg aaataactcaa tgaagatgct attggtagta 420
ctggactgga t 431

<210> 16032
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A7

<400> 16032

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aaggccctag agggcgacat ggtaaccgac gcccccgga tcgccttacc gcccgctctc 120
ggggcgccga tccgtccga cgtggtcagg ttcaccaca agctgctgtc ctgcaacaag 180
cgccagccct acgcagtctc ccgccgcgcc ggccaccaga cgtcggccga gtcctggggg 240
accggccgcy ccgagtctcg tatccaccgc gtccccggcg ggcggaccca ccgcgcccgg 300
ccagggagcg tttggcaaca tgtgccgcyg cgggcyatg ttcgcgtca ccaagatctg 360
tcgcaagt 368

<210> 16033
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A8

<400> 16033

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gccgtctctg acctccgacc tctgcctcca gcctccagcc ttctcccgcc ctacctgaaa 120
gcaactcctg atcggattca ggctaggtcc tcacagcaca gccctcctct gagactcagc 180
aaggagacct gaacacgaat tgatctctgc gccgtgcaa ccccgccccg tcgaagccat 240
gggggtccggg gactggttca agacgatcat cagcaagaaa aaaatcgaag cggggaaagt 300
caaagcacgc aaagctctct ggccaagtaa caaatggagg caaccagaca aatcagaagt 360
tagacggccc ttcttcaagt agtgaggacc acgaagacaa tgcagcac 408

<210> 16034
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A9

<400> 16034

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gtaggagaca aggggaaatg gggaaggag cgcaaggag cgatgcggcg gcggcgggcg 120
gcgagggtgga ggagaacatg gcggcggtggc tggttgcaa gaacaccctc aagatcatgc 180
ccttcaagct cccgccgctc ggcccttatg atgtccgct gcgcatgaaa gcagtgggga 240
tttgccgag cgatgtgcac tacctcagg agatgcgcat cgcgcacttc gtggtgaagg 300
agccgatggt gatcgggcac gaggcgcgcg gcgtggtcga agagggtggc gccggcgatga 360
cgacacgtgc cgtgggcgac cgcgtggcg tggagcccg cgtagctgc tggcgc 416

<210> 16035
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B1

<400> 16035

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ctcgctcgaa aagaaagaag ctagctttta gcatggcgtc tctggcggtc ggcagcaccg 120
tagcggcggc cgtggcggcg acatcgggga ggacgcggcc ggcgcgccg tccgtgctgg 180
tcgtgccgcc cgctgccagc aggggcggcc cggcgccggc caaggaggag aagggcctcg 240
gcgagaccat cttcggcttc atcttcaaga aggaccagct ggtggagacg gacccgctcc 300
tcaacaaggt cggcgccgcg ccggccgcg actcccgcg caagacgacc gtcggcaaga 360
aggctgccgg cggcgacgac agcggcagcg gctgtgggtt caaccttcgc ggcctcggcg 420
ggct 424

<210> 16036
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H4

<400> 16036

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ccctcacctc caggcggctg ttccctccg ccggcccgtc tcttctccg ctccaaggt 120
cgaccgcgcg gctcaggcgc gccctgcggt tcgccgtgc gggggatgaa gcggacgtgc 180
tgcttgcccc gggggccgag ggggaggccg tggtgcccgg gaggtggag gagcagcggg 240
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gcgggggctt caccggcggc ggtgcgggct ccggggcctc cggcgggtggc tcgggcaaca 360
agatgctgga ccggggcatc aacacgggca tcgggctcgg ggccagcacc tacgc 415

<210> 16037

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G1

<400> 16037

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ccgtgggtat ttcattgctt tgctccgac cgaggtgatt ggagggtcga ggaggtgcat 120
ccgcgctcgc agaagcatac actacagaat cggggcacac agagttgagt cggtatggag 180
atttttcacc agtggacgga tcgtcgccgc gtttcgccct accttgatc ggagctgcta 240
tgcttcaata gctgaaatgg aagaggaaga agaagagttg cagttggcga ggtacatggt 300
caataggagg cgacgtgcac tcaatgagcg tcgtcatgga agttcgattc ccgggcgtgt 360
taggattcat cgtgatcaca tgagcggcga tgcaagaatc cgagcggact actttggag 419

<210> 16038

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-G11

<400> 16038

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tttgcctcag cttcgccctcc ctgcggaccg cctccatcgg ccacccccgt ggcatcgcct 180
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aggtaaaagc tgtggaggtg gcaggatgcg actggattca tgtcgatgtc atggaccggg 360
cgcttctgtc caaacatcac aattggaccc ttggttggtg atgctctgcg 410

<210> 16039

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G4

<400> 16039

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tctgcgtgga cgccaccgag gacgagctct tccgcctcac caccaaggag gggaagctca 120
ccgtggagcg cgagaagggtg aagatcgaga cgcagccctt ctccccctg gtgcagttcg 180
agcaggaccc cgtgcagatc ctggacgcgc tgctcccgt ctacctcaac agccagatcc 240
tccgtgccct gcaggagtcg ctgcgcagcg agctcgccgc ccggatgagc gccatgagca 300
gcgccaccga caacgccatc gagctccgca agaacctctt catcgcctac aaccgacagc 360
gccaggccaa gatcaccggg gagatcctcg agatcgtcgc cggtgccgac gccctcgctg 420
gctgagcctg agtccccctg g 441

<210> 16040

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G5

<400> 16040

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aggtggtaat ggcggaccag gctaaccaac ccactgtcct tcataagcta ggtggccagt 120

tccacctgag ctccagcttc tctgaagggtg tacgggcccc taacatctgc ccttctttct 180
caccttatga aaggagattt gccacgagga actacatgac ccagagcctt tggggccctt 240
caatgtctgt tagcgggtggc atcaatgttc cagtgatgcc gactccgctt ttgccaatg 300
ctccagccga gaaagggtggc aaaaacttca tgattgattt catgatgggc ggtgtttcag 360
ctgctgtttc gaagactgca gctgctccca ttgaacgagt gaagctgctt attcagaatc 420
aggatgagat gatcaagtct ggta 444

<210> 16041
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-G6
<400> 16041

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ccactcgtc ttctcctcc tctccttgc cccgccctc gccggcgcg ggggaaagga 120
gggccacatc atgggtctgca agatcgccga gaagtacctg tcggagaagg cggcggcggc 180
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agtctgcaac ttcaagtttt ctcgggactg ccacaattct cgtggccagc aagggatgtg 360
cgtcgtcggg gctatcaaca actacacgga ccagctctac agctacggcc agaagacttc 420
gtataacctg a 431

<210> 16042
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-G7
<400> 16042

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tcggaggcgg cagcggcggc ggcaacaccg gtgacgccga cagaggggac ggtgatcgcg 120
atccacagcc tggaggagtg gagcatccag atcgaggagg ccaacagcgc caagaagctg 180

gtggtgattg acttcactgc aacatgggtgt cctccgtgcc gcgccatggc tccaattttt 240
gctgatatgg ccaagaagtc cccaaatggt gttttcctga aagttgatgt ggatgaaatg 300
aagaccattg ctgagcaatt cagcgtagag gccatgcaa cattcctgtt catgaggagg 360
ggcgacgtca aggacagggg cgttggcgca gcaaaggaag agctagcaag gaagcttgaa 420
ctacacatgg cctcgtagat c 441

<210> 16043
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-007-Q1-K1-G9

<400> 16043

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ccttgngtgg ttgtcatgga ccgtgatcca cggccgctg tgcgcaatgc tgtgaaggaa 420
gggtgc 426

<210> 16044
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-007-Q1-K1-H1

<400> 16044

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gtccccacca gaacttgctc gtagccccgc ccccgagaac ccgacagcgc gagatggctc 120
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ctgccacgag ggcgtacgtg acgttccttg cgggacgacg cgactactgg aagggcgtgg 240
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 tgcccacgt gcccgagtc caccgncgca tctcgtctc gcagggctgc gtcgtccgcg 360
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 tcaactac 428

<210> 16045

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H12

<400> 16045

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 cgcagcacag atgtaccctc aaatgcatgt gcagcatttt ccaaatttca tgccatatcg 240
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 tccatcaa at ggaaataatt atcttcagat gccagtgga gggtcacatt taactgcagg 360
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<210> 16046

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F9

<400> 16046

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 gggcggcgag gtggaggaga acatggcggc gtggctggtt gccaagaaca ccctcaagat 180
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gaaggagccg atggtgatcg ggcacgagtg cgcgggctg gtcgaggaag tgggcgcccg 360
cgtgacgcac ctgtccgtgg ggcaccgcgt ggcgctggag ccgggcgtca gctgctggcg 420
ctgccggcac t 431

<210> 16047
<211> 432
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-E4
<400> 16047

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aaactctatg ctatcccact cacaacaaca tcaaagcgta ccggtcttag tgatctaadc 180
acgggttatg caaaggggtg gaaaaccata gttttcactc gtacaaagaa agatgcagat 240
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caggatcagc gtgagaggac actaaatgga ttccgtcaag ggaaatttac tgttctagta 360
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aattgccaaa tg 432

<210> 16048
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-E7
<400> 16048

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gtaccctgac ctggaggaga cgagcaccgc cgcgcaggcc accgtcgtcc tcggcggtggc 180
cccggagaag aaggccgcgc ccgagttcgt cgaggccgcg gcggagtccg gcgaggccgc 240
ccacgcctgc ggctgcggta gcagctgcaa gtgcgacccc tgcaactgct gatcacatcg 300

atcgacgacc atggatatga ttattatcta tctagcttgt ggtggtggtt gaacaataat 360
aagcgaggcc gagctggctg ccatacatag gtattgtgtg gtgtgtgaga gagagagaga 420
aacaga 426

<210> 16049
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E9

<400> 16049

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ccatcagcag cgacgggctg tcacccaagg gccaggagag tctcgtcatg tgggcaactc 180
cggtgcttag cagcggcaac atctgtgacc tgctggaccc gaggtggac gtgaagcacg 240
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gactcatgcc gccgatatcg cagatactga gcatactacg aggagaaagc gcggcgagca 360
tcgccgacca gggcgcgacg gagccggact gcgtggacga cgaggcctac cccgccgcga 420
acgtgaggtc gc 432

<210> 16050
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F1

<400> 16050

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ggtagatcca aacacagggg tcgccatgta tgaatccgat gacatcataa aatatctagc 180
tgatacatat ggcgatggaa ctgttccaat tatgctatca cttggtctgt tgacagcaat 240
tacagcaggg cttgtacttc ttggtcgtat tggaaaggga aattcctaca ttgcttcaaa 300
agtcccaccg cagcccatag agatatgggc atgtgaggga tctcccttct gtaaattagt 360

acgagagaca cttgtcgagt tggaattgcc acatctgcta cacagctgcg cacgaggcaa 420
 ccccaaacga caagaaattt tcaagaaaa 449

<210> 16051
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-F10
 <400> 16051

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 cagcactgg gagtggagag atggcgagag tgtcacgtac cctcctggca aaggaccgcc 180
 taaaagggt ggtgtgctct cgggtggcgc ggacctgttc ttgcagtga ggatccgtgg 240
 gaatggtaga catgcaagggt ttacgagaaa catatgtcgt gtggttagag atcctcagct 300
 gagtaaatcg attcggatcg ctgttatatc cccggagagt ggagacttga tctccgacct 360
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 gaaatta 427

<210> 16052
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-F12
 <400> 16052

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 aattgcatca aactcgtaga aaggatgaga tccatgagct gaggcaaaaa aatccacttc 180
 atacttctca tggttttgca ctttctcaag catgtccagg gaacttatct ggtgtcattt 240
 tgacgccact tgacctttgc gatggacctt cgaactcgga tgcactttct attggttata 300
 caggatccaa cacaagtggg ttaggtcttc caaacaataa ctgctctgtt ggtgctactc 360
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attcacca

428

<210> 16053
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F2

<400> 16053

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gaggctaaac attgcatatc taatgcactt acaatgatta gcaagaaaca tttacagtcc 120
atagcatatc caaacacagg cgctgtactg tgaaagaagc ctactgcttg atgaaatcta 180
gatacagcat ttctacaaat cacatttcac ctgc 214

<210> 16054
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F3

<400> 16054

cccacgcgtc cgcgcaccgc actgattggg ctccaagatc ggccgctgcc aactgggggg 60
cctcaccgcc acccgttctt ggaaaacagc acgctactta cttgaaagta aaggagagata 120
cttgccgcgt tgggattctc caactccaac caagacgaac gatttcatcc cactaatcct 180
ttttcttttc ttttcgtttt tatttttaat ttcttggttc ggttcttgat cacctgttct 240
tccttatgac cttatccagg aaattagatt atcaggtgca ttttgtgtga ggatccagac 300
gcaagaagat ggctctcaag aagttgctgc agctcttttg tgcggaag aaggattcca 360
agaagaaagg taaattcatc gatccac 387

<210> 16055
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F5

<400> 16055

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 cggcggaggc gcgggcggcc gacgagagct tccgggagcct ggtggcggac cagtggagcg 180
 gctcgctccc gtccgcacc gacgacgccg acgacatggt ggtgttcggg gtgctgcagg 240
 acgccttcgc ctacggctgg ctgcccagcg gctcattcgt gcacgtgaag cccgagccag 300
 tgcggtcccc cgactcgctc tcctaccacc cctgctccta cgacgggtca cctgcttcg 360
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<210> 16056
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F8

<400> 16056

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 accacgggag ccacactccg cgcttgcttt gctgccgggg catggacaga gcgctagctc 180
 gcctacccat cgcgatcaca cagccctatt ccgcagcgag tacaaattcc ctgctcgtct 240
 gcttgacagg tgcaggcggg cagatcttga ccgaattta 279

<210> 16057
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 16057

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 tcttcaataa cttcctcccc cagaactccg ctgccctagc tgcctaccaa ctgcagcagc 180
 agcaggctca tcacttcgac tcccatgcct accaccaaag cccctaccgg taacaccatg 240
 caccgtctta ccaaaccn cgacgtgtc aaacctgcgc cgacaccggg caaccagcaa 300

gccgtgctgg accgggctca aaaggccgcg agggacgctc tggaagagct cgtgaaaggt 360

gggga 365

<210> 16058

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-C2

<400> 16058

gtccacttat gatgtatcca tccatggttt gattgaattg caaccgctac agcaaccgg 60

tggaaccat gggcccttt ttcttgaagc agggggaccg gcggaagctg gggaccaccg 120

aaaagcgggc gctggccaaa ctgatggcct cctccggcta cacgttcctt gggttggtgc 180

accc 184

<210> 16059

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-C3

<400> 16059

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aggcccatca taccgacata atgttcaagc agtcggacca acgaaagctt taactcacat 120

tgaagaaacc gatacacacg ctgttatcca tgaatccctt cacatgatat aatttttaag 180

cttatacata tggtgattga actgtttcaa ttatgctatt acttgatctg ttgacagcat 240

ttactgaagg tcttg 255

<210> 16060

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-C4

<400> 16060

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ggcaccctcc gccggccgtc cccatccgac atacaaggag atgatcatgc aggcgctgac 120
ggagctgcgg gacccgagcg ggtcgagccg cagcgccatc gccagctaca tcgccgacca 180
cttctccggc ctccactcgc gccacgatgc cctcctctcc gtccatctcc gcagcctcaa 240
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gcagggggcg ggctccaaca tcccgcctaa cccaaccct gctccggggc agaagcgtgg 360
tcggggggcg cctcgcaagt acgcagattc agcccccttc gctttgacct cggcgtttca 420
aggcgccaag cgagggcggtg gacc 444

<210> 16061
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-C7
<400> 16061

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tccccaagaa gaaccgcaat gagatctgca agtacctctt caaggagggc gtgctgtatg 120
ccaagaagga ctacaacctg gcgaagcacc cgcagatcga tgtgcccaac ctccaggtga 180
tcaagctcat gcagagcttt aagtccaagg agtatgttag ggagaccttc tcttggcagt 240
actactactg gtatctcacc aacgatggca ttgagcacct acgcaactac ctgaacctcc 300
cgtctgagat cgtgcctgcc acgctcaaga agtctgctaa gccacctggc cgcccatctg 360
gctctggccc tcttgggtgac cgtccaaggg gccagggcg ttttgacggc gacaggccaa 420
ggtttgggtga cagggattgg 440

<210> 16062
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-C9
<400> 16062

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gcaccagaag ccgagccgga cttgctgggt ctgaacgaac cgagccctgc tgcgaccgcy 120

atagaagagc agaatgcttt ggcgctagca attgtcccga tagatgatgt tccgggagct 180
 gtcctacttt ttgagaacgg agtcacaggc tgggaactgg ccctgggtgac agcaccgagt 240
 tcgaccgaga ccgcggttgc cccaagcaag aaactggccg gtggtctgga cttgctgacc 300
 cttgatagcc tgtacgacga ggcgaaccgg agagcgagcc agccggcgag ctacaacccc 360
 tgggatgcaa ccgcgtctgc cccgatgatg accaccatgg cgccggcgat gcacgatccg 420
 ttctacgcc 429

<210> 16063
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-D10
 <400> 16063

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 gggcggcggc tgcggctgtg acgtgcttca gcggggcctc cctgtcagtg gggcgtgaag 180
 aggaggggtgt agcagtgggtg gtggggaggc gtgcgttggc ttccgcagca gctgtcgcct 240
 cagtgcttgg gtttgcaggc cgtgggtctgg cggccaacca gggcctgctc gccgggaggg 300
 tccccggctt gtctgaacct gacgaaaatg acaggttgga gaacgtaccg catgccagac 360
 gacaagggtcc gggggcacgg aattggctgg agcccatca ttccgtacag cttcaaagtt 420
 ccaga 425

<210> 16064
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-D11
 <400> 16064

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 gtcactggag atatcatctt tgatctccag cagacggagc atcccaagtt caagagaaag 120
 ggtgatgacc tgttctacga gcacaccctg accttgactg aatctctgtg tggcttccag 180

attgtttgtga ctcaacttggga taacaggcag ctgctgatca aatcaaattcc ggtcgaagtt 240
gagaagcctg attcttttcaa ggcgatcaac gacgaatgca tgcccatgta ccagaagccg 300
ttcatgaaag gcaagctgta cattcacttg tcggtggagt taccagactc gctaaacccg 360
gagcagtgca 370

<210> 16065
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-D12
<400> 16065

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tggcgtggaa catcggggcg aacgatgtcg cgaacgccat ggggacgtcg gttgggtccg 120
gagctctgac gtcocggcag gcggtgctga ccgcccgggt gtcgagttc tccggcgcag 180
tcctcatggg gacccatgtc accagcacca tgcagaaggg aatcctggtt gcgtctgcgt 240
tccaagggaa ggactctctg ctcttcgctg gactcatatc ctcccttgct gctgccggta 300
catggctgca ggttgcttcg tcatatggct ggctgtctc aactacacat tgtatcgttg 360
gggccatggt tggtttcggg ctggtgtatg gaagggtgga tgcagttttc tggagttctt 420
tggc 424

<210> 16066
<211> 140
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-D3
<400> 16066

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ataataataa tacagacatc tgtgaaatag tttgctcttg tgctgtacta caactcaaac 120
gtaagaaatg gattcgatct 140

<210> 16067
<211> 140

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-D4
 <400> 16067
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 ataataataa tacagacatc tgtgaaatag tttgctcttg tgctgtacta caactcaaac 120
 gtaagaaatg gattcgatct 140

<210> 16068
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-D8
 <400> 16068
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 ggcgtcatcc cagcccttgt agacttatca gtgagtggaa ccaagggtggc aagggtattgc 120
 tcggtcaagt tgcttcagct tctgaggaac ttcaggcgat gtgaccagtt cagcagttca 180
 tgctcaagag agcttgctgt cgatcatgtt tcagagaaca ctcgcaatgg ttcaatttgc 240
 atgcagccga tatcaaagtc agcccggtat atttcaagaa agctcaacct tttctcaaaa 300
 cctcggtcgc tgaccctggc ttgagaaatg gaaggggtcg gttggatcga gccctattcc 360
 gcagcgctaa ctgccagatg tacagatagt agcaggtagc gttcgtcgag atgaaatgtt 420
 tgtg 424

<210> 16069
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-007-Q1-K1-D9
 <400> 16069
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 attcaatcga agaaaagatc ttcagcaatt aattaccgaa gaaaagaagg ctctgtatg 120

acatcaaccg gaacccgtag tcgtgcttgc gactatcgcg tcgaattagt cagggttaagt 180
 tggttcgtat tcccattaac taggtctata aatagattaa atagaattgt tggtcacaat 240
 aaatattatt aatttagcat gcgtatattg tgatgattga tttagataac tcgctaaatc 300
 aactaattaa gttacacagt ttagagagtt aataaaaagc ttagaataaa aatagatttt 360
 ctagtgtaat atgtcaattt gattaatgga tatagtcgat gtcctgctgt gatatccatg 420
 gtgcttaatg ctt 433

<210> 16070
 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-007-Q1-K1-E1

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 gacaacacca agtactatga gacccctggg gtgcccaagt cggcgccccca ggacgacctc 180
 aagaaggcct accgcaaggc cgctatcaag aaccaccccg acaagggcgg tgacccccgag 240
 aagttcaagg agctcgcaca agcctatgag gttttgagt atccagagaa acgtgagatt 300
 tatgatcagt atggtgaaga tgcccttaag gaaggaatgg gtggtggtgg atcccatgct 360
 gatccatttg acattntctc atcattcttt ggaccctctt ttggaggaag tgggtgga 417

<210> 16071
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A2

<400> 16071
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 acccaaggga tttgctcttt ttgtctacaa gaccattgaa agtgccaaga aggctcttga 180
 ggagccacat aagcattttg agggagtgat gctgcactgc cagaaggcga ttgatggacc 240

aaagccgaac aaattaggag gagctggagg ttttttcggt gctggagctt caagtggggg 300
caaggggttt gctggttatg gagctactag tcattctctg cccggaactg ttggtattgt 360
ccagccaatg tcacctctgg cacctggatt ggcttcattg cctggtggta tttctgctgc 420
cccaggtgtg gatcctgctc 440

<210> 16072
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A3

<400> 16072

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tggggcagca tgaagcagac ggggggtgacc ctgcggtaca tgatggagtt cggctcccgg 180
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atcctcaagg tgcgggactg gtacatggac tcattccggg acatcagata ctttcctgaa 360
gtgaggagca agaacgacga gctcgctttc acgcagatga tcaacatg 408

<210> 16073
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-007-Q1-K1-A8

<400> 16073

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gctcattgca cttctaattg gactgaacat gtcttgact gcaatcactg cagctcttgt 180
tttcttgga ctcgatttta cggacgcaca agcttgtctt gagaagggtg catattcact 240
gctgatcttt ttctgcggga tgtttatcac tgttgatggc ttcaacaaaa cgggcatacc 300

gaacacacta tgggagttag tggaaccata ttcacgaatc gatagtgcga aaggtgttgc 360
acttcttgcc gtggtgattc ttatcctttc aaacgtggcc tctaattgtc ctacaggtaa 420
ttnttcttac gcatatg 437

<210> 16074
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-B10

<400> 16074

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agcgccgacg tcctctctct gtgcttgatc tcccagtcct ccgctccctg aaaccttcac 180
ccacatgttt gtgaagggtcc ggtagtggag atcttggcaa ggtccctggt ctgcgctcct 240
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cagcatctgt gcttactgtg ccgtgctgtt tctctgcacg cgtcaagctc tcgcgctgaa 360
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<210> 16075
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-B11

<400> 16075

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atggaaaatg gggcgaaacac gagttggatt acctcttgtt catggttcgt gacgtgaagc 180
tcgacccgaa tcctgaagag gtggccgatg tcaagtacat gaaccggcat cagctgaagg 240
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tggtggtgga caactttctc atgggctggt gggatcatgt ccagcaaggg actctgcaag 360
gggcaacaga catgaaaa 378

<210> 16076
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-007-Q1-K1-B12

 <400> 16076

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 ggcttcggcc gccacggcgg cggcgctccag cagcacgtcg tcaaggagaa gttcgaggag 180
 gtcgacacgg tcgcacgcgc cggcgccaac caccaccacc accatggtca ccacggcggc 240
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 gtccacgagc gcagggagag cttcctcgcc agggctaact gagcagcccc ggcgggccggc 360
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 tcgtacttgg c 431

<210> 16077
 <211> 162
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-007-Q1-K1-B3

 <400> 16077

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 ggaggaggcc aagaaggtgg aggtggaggt caccaaggag cccgaggcgg cggcgaagga 120
 ggacgtatcc gatgacaagg cgcgtatccc cgcgaccgac cc 162

<210> 16078
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-007-Q1-K1-B4

 <400> 16078

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 tttggttcat ggtaaccatt ttctagttaa ttttatgagt ctgctttcgt ggtaagggtt 180
 .aaattaaggt cagtagtgat gtgtaaataa ttgttgccct agcaacatca cttgctgaat 240
 cagcctgttt tgcttttctt ctaacagtgg aaagctgcaa aagaggaact tcgcgacgaa 300
 gacgaagagg agcctgaaag tgctctggag gcattagaaa ggaagcggca aaaggaaata 360
 gaggaatggc ggaaacaaca gatagctagt ggagaagctc anganaatgc caattttgtt 420
 cctgttcgtg gtgattggt 439

<210> 16079
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-B5
 <400> 16079

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 ctgactcgcc tcccttcata acatctccct gtgttatgca aagcgcacaa ggatctcccc 180
 tctggcactt ctgttttttg gaatgaagat gctcagaggc gttgttatga agtcccgatc 240
 caatgttctt tgctctccat gtctgtactg acttttagcta tgcattctct ttgtcacccc 300
 agtccattgc atgtgccatc caatccgttt cgaaccattc atctcaaagt tgcatttagt 360
 ggtggttttc ccttcgtctt aatatctttt gtgcctcatg aacctggagc atgccccata 420
 ttcttagctc ctccatgtat t 441

<210> 16080
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-B6
 <400> 16080

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 ccactgcatg ggaggataag aagtgtaaag gtgaatctag attcccagcg caggtaggga 120

tccgcgtag gaagctctgc aagccgttg aagaggattc cttcaggcca gttttgcacc 180
 actatgatgg tccaaagttt cgcctcgagc tctccatcgc ggagaccctg tccctgctag 240
 acctatgcga gaaggaaggc atctgagctg ttggctgcct cgtgaggttc tagtaaatat 300
 caatcatcct tgtatgttct gtggatgggtg gttggcaatg ttgtttatct ttcaagcgca 360
 agctgctgcc ggtctcgttt tccctgtcct ggatggaagc aaagggacct ggtactttga 420
 aggccccccc tcaaacataa 440

<210> 16081

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-B7

<400> 16081

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 gcgcgccttg gcgcgcgacg ccgcggagca gctgcggctg ccgcggggcg gcacgtcggc 180
 gtcggcgctg gcgtcgtcgt cgccgtggcg cggggcgcgag gaccacctcc acggccacgg 240
 caagacggcc aaggtgatgc acctgctgct ctggggaccc aagtgaagcg gcgagaggcc 300
 accgtaccgc cggcggttgct cgttttgcct tgccctgcaat ccgccccgca cggactgtac 360
 tgtactgtac ctatacacct atatactacg acgtgcacat gtacgagtct acgacgtgct 420
 gctgtaccat a 431

<210> 16082

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-B8

<400> 16082

cctcggctct ctcctctccg catttcgggc ggccacttgt ggcggcgtag ctacgctact 60
 acagctccct gcatggatgat ggagggggcg acaggctcac tctacggccg cctcaacaag 120
 agcagcacgc ggggggttct cgcctacacc gccgcggggg ctgcctgcgc ggctgtctc 180

gctgtcttcg tgctctccgc cgcggactcg ccggcatctg cggcgcgcaa cgatggcgcg 240
 cgctccgcc tgctctcgcg ctcaccgcgc gtctggcccc acctcgcggt caactggcgg 300
 gtggtggtcg ccaccgtcgt cgggttcctc ggttcgcgt ttggcacctg cggcggcgtc 360
 ggcgaggcg ggatcttcgt gcccatgctc aacctcgctg tcggcttcga caccaaat 418

<210> 16083
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-007-Q1-K1-B9

<400> 16083

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 gggcggcggc ggtccgcgctc ggcgcggctg ccgcggggga gcacggggct gccgctcatc 180
 ggggagacgc tgcggctcat cgcggcgctac aagtcgccga acccgagacc gttcatcgac 240
 gagcgcgtgg cgcggcacgg cagcgggggtg ttcacgacgc acgtgttcgg cgagcgcacc 300
 gtgttctccg negacccggc cttcaaccgc ctgctgctgg ccgcggaggg ccgcgccgtg 360
 agctgcaact acccgctg 378

<210> 16084
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-C1

<400> 16084

cagatattct gcagatgaag gcccttcgtt gactgaactg agtggatata atgcaaagag 60
 acacgagttt gaccagagt atgataatga tgccgaacaa gcgcttgctg agatggaatt 120
 taaagaaact gattcagaaa ctgatcgtga actgaaactc cgtgtgctgc gtatttatct 180
 gtccaggctt gatgaaagaa aaaggagaaa agagttcata ttggaaagga atttattgtt 240
 tcctaataccc ttggagaagg atcttataaa tgaagacagg gaagtttacc atcggtataa 300

ggctcttcacg cgttttcttt ccaaggagga aca

333

<210> 16085

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A12

<400> 16085

gcaaacctct gcaatttagt tgacatttag cttctctcga cccctctcaa cttcttgttt 60

atgcaggtgg aagtcaagag gacagttccg aggggaagaga tgaataccaa agatggccct 120

aagacaagaa agatcttcat cgggtgggcta cctgcatctc ttactgaagg ttggtgtttg 180

ctatcaacaa acaaagtgtg aattcatttt gtttatgata ctgagaaggc acaaaatttc 240

agatgagttg aaggatcact tttcattgta tggtaagggtg ctggaacatc agataatgct 300

tgatcatagc actgggcgtt ctagagggtt tggttttgtc acttttgaaa gtgaagattc 360

tgttgaaaga gtcatatcag agggggagaat gcgtgatctt ggtgggaaac aggttagatt 420

gttaattttt ttg 433

<210> 16086

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-G6

<400> 16086

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cccagcggcg gcgaggcgat ggcgggcgct gtgacgggtg acggaccgat gctctcacca 120

gctgtggccc gcgtggcggc ctgcctcctg gagaaggacg tgccgttcca gatcgagccg 180

gtggacatgt ccaagggcga gcacaagtcg ccgtccttcc tcaagctcca gcccttcgga 240

caggtccctg ccttcaagga ccacctcaca accgtctttg agtcaagggc tatttgccgt 300

tacatatgcy accagtatgc ggactctggt aatc 334

<210> 16087

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-006-Q1-K1-G7

<400> 16087

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gttccggcgc ccgtggaaca cgccacagcc ggaagcgctg cgcttcgcc tcgcctgcgc 120

gcgcggggcg tccggcggtga ggacggcggc ggcgtgtcac ggaggagcag gaggcagcagc 180

accgcggacg ttctcgacct gctcgggatc tcagcggatg ggagccccga tgatgttcgg 240

gcgtcctaca ggeggtggc gctaaagtac caccagacg tgtcccctcc gggcgccgcg 300

gccgagaaca cgcgccgctt catcgagggtg caggaagcct acgagacgct ctccgaccca 360

agccgccggg ccagctacga ccgtgcactc gcccgcggcg tctgccgncg cgccttctcc 420

ggcgccggtt tccaatccca ccacgcctac taccattacc a 461

<210> 16088

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H10

<400> 16088

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gaaaactaca ttatgggtctg gaagggtccg atgaacagtt aggaaaaagg gcgagatgat 180

ggtaatctag ttatctgggtg taacctgtac tgtactctac tgaataagat ggcttggtac 240

cgtggcgtgt cacctgatct tgtaagaaca ggctgtaa atgtcatttg tgcacttgca 300

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<210> 16089

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H11

<400> 16089

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ctcgaatcat cgcattcactt acgattcatc ctcgaattga catgtgatct gaaaagaaag 120
ggtgcattga acaatccatg acgtgctggg gtcactttca tagcacgagg gcgatcgacg 180
caagcgctgt gccacctgga tcttgagcta ccgttgagca catacctgcc caacttaagc 240
gccaggcagc gcatgtcgaa ctgaagatca agatagcacc gcgtctccgc tagtaagaca 300
gtgcactatc tcgattacca agtcttgatt cagcatactc tcaaggtaaa aggtggagac 360
aagaccaaca caatccacat tttgctgca ctcgctggat gcgcagtgt gtattcacta 420
attgc 425

<210> 16090
<211> 98
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-006-Q1-K1-H2
<400> 16090

ctcgtgaaca atggcaagaa caagcgacac ggatacgcg tacaaggcga aggacgcaga 60
cctgttccac aaagcgcggg cacggctgca gcggtcca 98

<210> 16091
<211> 452
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-006-Q1-K1-H3
<400> 16091

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tactgaatth tgtagtttg atagttgttc gaaaaggta tttcagaaac ctgtctgaac 120
attgtaatgc atatgaacaa caatcacaat tgtagctgcy tttctttgga agcaccctt 180
taattccatt ctgttggttg aaagttgaaa ctatggctta tgtatctgcc aaggatgaac 240
caggacggat gcatttactg gagatcacac ttgccatggg ctattccaaa agtcctcctt 300
caatctctac agttagtctc tatectaata tttccataaa ctaagtctng ttttattata 360

ctttgctata attgaacttg tctcattaac aggacgtacc atatcttcca aaaatacatt 420
 ggtcaaaaaa ctcaagactg aaagatgtta tt 452

<210> 16092
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H4

<400> 16092

tttcggatga tttaacggga tttgaaatca catatcttat agagttgacg gagcctgtca 60
 gattcatgtt cacatgggtc gccgcactga ctttaatat tccggtagcg catgcgatca 120
 ctaatgtcat agtgaaggac tttctgatct tga 153

<210> 16093
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H5

<400> 16093

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 gtggtagcag agaaaagaac aaaagtggaa ccaaaactgg tactgttatg gacaaattgc 120
 acaatgacaa aaagttctcg cctggacatc attattccaa ggccagccat gagtctcata 180
 atccagtgga agaacatcaa ccacatggat cagatgataa ttccaatgaa acaagagatg 240
 gtgttggtgg caatgaagct cctgttgtgt caacatccag aatggatgcg atgaataaaa 300
 ttgacaagga taaggtaaaa gcagcttttg agaagcgaag gaaatcgaaa ggtggttttg 360
 ccacgaaggt aaatgtgatt gatgatgatg atctacttga gagagagcta gaacaagggtg 420
 ttgagttggc tggtgagttt g 441

<210> 16094
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H6

<400> 16094

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ccggcgcccg tggaacacgc cacagccgga agcgtcgcg ctcgcctcc ggctgcgcgc 180

gcggggcgtc cggcgtgagg a 201

<210> 16095

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H7

<400> 16095

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gccgccatgt cccagatcct ccgccaccgc ctgtcgggtc actaccacgg agtctgcggc 120

cactgctgcc gccgcctcag ctctccgtc tacggcgggc gcgggagtcg ccgcgccgtc 180

gccgcgccgc cgcaggacgg cgagggcagc cgagcgggtga ggggtgtctgt gtgggtgggac 240

ttcgagaact gccacatccc caacggcgtc aacgtccacc gcgtcgcccc gcgcgtttcc 300

gccgccctcc gcgcgcgcgg cattcgtggg ccgctctcca tcaccgcctt cggggacgtg 360

ctgcagctcg cgcgctcctt ccaggaagcg ctgcgcgcca cgggcgtctg cattttccac 420

gtcccaagca gtgggaag 438

<210> 16096

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-A10

<400> 16096

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gtttccccgc gcgcgttcag ccgcgcggac ttcatgggt tcgtgcggcg cgcgtggcag 120

ggcgccaacg cggggggcca gcgcttcgcc ttcagggcac ggcaggccgc gcagcggctg 180

gacagcaggt tctcatctc ccggaggctc gcagacgctt cccgtgccgc ccgcgcccgc 240

gcagttgaga tcgacgccga gttcgggatt cggcggcgng ggcgctcctt ctctgtcgac 300
 ttctcccga actggcccag gtatcggagg gacatcaatg acttcatggg aactcccatc 360
 gggagagcat tagctacaat atttttcctg tggtagcac tgtcaagggtg gttgttcaga 420
 attntcattt ttgg 434

<210> 16097
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-G5

<400> 16097

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 taccatccga acattgacaa gcttggtagg atatgcctcg acattcttaa ggacaaatgg 180
 agtcccgtc ttcagatacg tacagttctg ctcagcattc aggcacttct gagtgcccca 240
 aatccagatg atcctctctc agacaacatt gcgaaacact ggaaatcaaa tgaagctgaa 300
 gcttttgaga cagcgaagga gtggactcgc ctgtatgcaa gtggggcatt gtaaccaagt 360
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 tgcttgatga gagcaaatt 439

<210> 16098
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A11

<400> 16098

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 tgagggtcga tggcgccgt ctacgtgcc gcggaccacg gcaccaacgg cggtccggc 180
 ctgaccctga acccggtggc ggcgcgccgg gcgctcagcc tcgtcggcgc gccacgcgc 240
 tcgtcgtcca cgccgcggc gtacgggagc atcgtcaccg tgctcagcat cgacggcggt 300

ggcgtgcgcg ggatcatccc gggcaccatc ctgccttcc tcgaggagaa gctgcaggag 360
 tacgacgagc ggccggacgc gcggtctgcc gactacttcg acgtgatcgc cgggaccagc 420
 accggcgggc tgggtca 436

<210> 16099
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-E7

<400> 16099

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 ttcatgata agaccttctc gattgtagcc aatattttat tgcaaataat tccgacaacc 120
 tccggggaaa aaagggcatt tacttattat agagatgggtg cgatttgact cttttttttt 180
 ttagccctac ctatatctca ttcttacgag aaagagagag gggttcgcata gagagaacaa 240
 aattagtaaa ggaaaccgc gcttggggaa ggtgaggtga actaacaatt ccttctgtag 300
 tgtatcctcg attgatgtgg cctaagatgc ttcaattgta gatttgagta ttgagcgaat 360
 ggtttcacc 369

<210> 16100
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-E8

<400> 16100

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 ccctgacccc aagatcagga tctacgatgt cgggatgaag aggaaggggtg ttgatgagtt 180
 cccctactgt gtgcaccttg tctcttggga gaaggagaat gtctccagtg aggcgctcga 240
 ggctgcccgc attgcctgca acaagtacat gaccaagtct gcaggaaagg atgccttcca 300
 ccttagggtc cgggttcacc cggtccatgt ccttcgtatc aacaagatgc ttttctgtgc 360
 cggggctgat aggctccaga ctggaatgaa gggt 394

<210> 16101
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-E9

 <400> 16101

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 tgtccgcgtg gggctttccc gccggaaacc caatgaattc aaggcggcct tctaactacc 120
 cgtggcactt tccgccgtcg tcggtgccgg ggcgggctgg gactctgagg gcaacgtatt 180
 gaagaactac tccttgttct gggtggtggc ctacccaaac ctacttggtg ctgcac 236

<210> 16102
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-F10

 <400> 16102

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 gaaactcaca ggacggcagt attttgaaag tggaaggcat gcagtgaaag gagcaagcac 120
 agttgctgat gaagatgaag aaaaggagga ggatattgaa ttcgatgatg attttgaaga 180
 cgatgaacag gacatgcttg agcattatct agctcaacaa tcagagaact cagcagctta 240
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 tgttatatgt tgcaactgta gctctagtgc gcactatatt ttttttatgt ctctcatcat 360
 ttggttgat ttgtggatgc tttctagttt tatcaagggg gcttgggggt ctcattaata 420
 tatacgct 428

<210> 16103
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-F12

 <400> 16103

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taccttggtc atacatcttt agtgaataga gtgtatctgt tggccttata gatagatgaa 180
ttaacaagaa gccccttcgg gagttggaga gtctctacga gattttgggtg ttccagtggg 240
gctgtggcga ctacttcaag atgtggcata taccgttaca cccaattacc tgtagccatg 300
cacggatggt agaggacaac catggtttga ggtatgtatg catattacag aacgtgctag 360
aagccatggt ggtcacattg gatgtttcat gctgaaggaa ttaactgctt ggaagggtgct 420
caagta 426

<210> 16104
<211> 303
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-006-Q1-K1-F4
<400> 16104

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aggcgtgcgc ggatatgggg cgccgaggct cctccgaccg cctcgaggcg ctctccctcg 120
agatcgagcg caagctgcac aaggccctga tgtccaactc acagcgtctt cagatacttc 180
agcaattggt tgctgacatc gcattgaaag tggatgaccg cgctcgagat gcaattatga 240
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atg 303

<210> 16105
<211> 536
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-006-Q1-K1-F5
<400> 16105

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gagcccagca gtcagtnccg cgggcgaatg ggcggtcttc ccaatgatcc ctctcgtnn 120

cagctcttgg nncggtggcn gcnnctcagg nnngcctgct cgccnnncct cggctnnngc 180
 cgtcgcctcc nnntccttcg ctcgnttcgt ctggctcccc aagaagaaag aatcaagtac 240
 ccgtnacaag ccctaccggg nnattggggg ggtggcctga ctcgtcngtn acgtcgactg 300
 ccaacctggg agaaaggggc aanggggcat agggggcgtg taccagtnn ntcgtcgacc 360
 aaagtacgnt ngcgctaacc cgtcgaccgg gataccagc tccaatctta ccaaccgagt 420
 gatgaaactg ggggtctcct aaccggcgaa acgtctaccg tnncggtgga naccactnn 480
 ngggcttctg ggatccctgg gccccgtca cccttncgct tgggaatccc ctcggc 536

<210> 16106
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F7

<400> 16106

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 ctgtagaagg tattgcgaga cagccagaag cagaaggtaa aataagaggt actttattgc 180
 ttagtctagc ttttatggaa gctttaacaa tttatggact ggttgtggca ctagcgcttt 240
 tatttgcgaa cccttttgtt taatcctaaa aaagaaaatg agtccttttag attagatact 300
 tttttctttt tttagtacat tggcatttgc ttatgtaatt ctaagtatat caatacttta 360
 ctttactact atttattata ttatttcttt tttatattat tccggaaatt ttgtatctat 420
 cgggacag 428

<210> 16107
 <211> 62
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F8

<400> 16107

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<210> 16108
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-G1

 <400> 16108

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 gatcgagcga gcgagcagtg tccggccccc atggccatgg tcgcgtacac ctccttcgcg 120
 taccacaagc cgcgtatcgt ggaggtgtgc atgaagaaca gggctctgccg ggacagggag 180
 cgggacggta tggagcacia gcacccctt aaggtctttg agatcacgcc gtctcctagg 240
 tgccttagtg ttcgctgctt tctcaccaac a 271

<210> 16109
 <211> 171
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-G10

 <400> 16109

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<210> 16110
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-G3

 <400> 16110

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 tggacgcggt tccgcttagg acgcagcttc gtatgcgtat acctgaccag gagccgacga 120
 tacccttaac attctatgaa ctgctccgga tctcagtgga tggtagacct gatcatcttc 180
 ctgtattata 190

<210> 16111
 <211> 228
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-E6

 <400> 16111

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 gcattgctct gattctgac acaatttggg ggggagtagg tgagatagtg agattgagct 120
 tcttgaagaa aatgttggtc ttcagcttaa catggcatat gaacatatgt gacgtgtaca 180
 tactttataa cctaaggttt gtagatccag ggatcttatt tgcgttcg 228

<210> 16112
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-C9

 <400> 16112

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 tacatcgagg tattaagaa gctgcctggg tccgggcagc agatgtcgcc gccgtctgca 180
 acaatggcgc acttctcttg gctcacgggt cttggcttcc tattgcttac cttcaactca 240
 ggcattggca tttatcggtc cgacgggtgac tctgctccg tcggtttcgt cgtgggtatct 300
 tatctagacc tgggtggacct gtctgctgct ctgcgctact acgaacagat ggatcatcag 360
 tactcccaa agcgtctgta ggtcaaggct ggtagtttgg aaccttacga ccct 414

<210> 16113
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-D1

 <400> 16113

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cctgcctcag cttgctggcc tccctgcctt cacaagcaga aggcgcttca aggtcacggc 120
catggcgccc aaaaagaagg tgaaccgcta cgacgagagc tggtcgaagc agtgggttcgg 180
cgcgggcatc ttcgcgagg gcagcgagga ggtgtccgtg gacgtgttca agaagctgga 240
gcggcgcaag gtgctgagca ccgtggagaa ggccggcctg ctgttcaaag ccgaggagct 300
gggcctgacg c 311

<210> 16114
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D11

<400> 16114

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aaggctttat gctcaatgca aggaataggg aaatgttgaa gacttgtgca ataagaaaga 120
aagagaaaaag gcaatgttgc ccctgtagta cttaagattc atatgtgcaa gcttcatggg 180
cattcttgta atttcataca taggtatata tcgcccctat aaatagagaa acagttctat 240
gcataaattc accttttcca ggggttaacaa cttcatttaa ctcagtattc gaagtacctt 300
cgcgctgttt cttgtgtcaa gacgaaggct gatgcaccac tggctaacac atccatatac 360
gtagagtata tccatagggc gatgcatgga agtgacacgg gtgcata 407

<210> 16115
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D12

<400> 16115

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ggctttatgc acaatgcacg gaagagggaa atgttgaa cttgtgctat aagaaagaaa 120
gagaaaaaagc aatgttacc ctgtagtact caagactcat atgggcaagc ttcattgggca 180
ttctcgatc tgcatacaaa gctatatctc gccctataa atcgagaatc agtactatgc 240
ataaattcac ct 252

<210> 16116
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-D2

 <400> 16116

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 catggcgccc aaaaagaagg tgaaccgcta cgacgagagc tggtcgaagc agtgggttcgg 180
 cgcgggcatc ttcgcggagg gcagcgagga ggtgtccgtg gacgtgttca agaagctgga 240
 gcggcgcaag gtgctgagca ccgtggagaa agccggcctg ctgtccaagg cctaagagct 300
 gggcctgacg ctcttctcgc tggagaaaact gggcccgcgc ttcaaggccg aagacctggg 360
 cctgctcaga ctcttcgaga cc 382

<210> 16117
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-D5

 <400> 16117

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 ccccggccgg cttcggtcgt cacggaagct gcgtgcatca gcacgtcgtc aaggagaaga 180
 tcgaggaggt cgacacggtc tgacgcgctg gctccaacca ccaccaccac caccatggtc 240
 accacggcgg ccacggcttc gtggtgcgcg agaccagggt cgaggaggac attaacacct 300
 gcaccggcga ggttcacgag cgcaaggaga gctatctcga cagggctaac tgagccgccc 360
 ggctgtcggc atccacgctc gttcgtgect gcctgcgtgc cttatgtatg tctgtagttg 420
 actggttggtg caa 433

<210> 16118
 <211> 228
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D6

<400> 16118

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gcagagctca tgctcatcct aggtggagct ttgcgcgtgt gccatgtgtt gctggtggtg 120

ctgctgccgc tgcttgaggt gcatccataa catcgccct cccctcagca gccttcctt 180

cctccgcttc tccggcccag ctctaccagg tggaggtgga ggtggagc 228

<210> 16119

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D7

<400> 16119

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acgttattga gaaatgcaag tacagctcaa tacgtaaag cttagaaaat cggctcgtcg 120

cttaagggtg tgtctctcag tcgtcgagga acatgtgcta ggggtgtatac ctatcaactc 180

ccaaaaaacc caactctgcc ttacgtaaag ttgccagagt acgattaacc tctggatttg 240

aaatcactgc ttatatacct ggtattggcc ataatttaca agaacattct gtagtattag 300

taagaggagg aagggttaag gatttaccgc gtgtgagata tcgcattatt cgaggaaccc 360

tagatgctgt cgcagtaaag aatcgtcaac aaggcgcttc taaatatggg gccaaaaagc 420

caaaaaaata agtgattcgt ttttagccct tataaaaag 459

<210> 16120

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-E10

<400> 16120

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acagcagcag atgcagctgg atgcaccaca cgattcaca aatcaacagc agcagcaaca 120

gcaaatgcc a atgacatata atcagcagca tatgatgcc caaactcagc agcagcagca 180
gcttcagtg aagctggaga atggaggcgt cctgggtggg gtcaaactgg agcagcagat 240
ggggcagccg gatcagagtg tttccacaca gatgcaacgc agttcgagtg gcggtgtgaa 300
gcttgagccg cagttgcaag cgctgaggag cttgggtgct gtcaagatgg agcaccaaag 360
ctccgatcca tctgtggtcc tgcagcaaca gcagcatcaa cagcaacgac atat 414

<210> 16121
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-006-Q1-K1-E11
<400> 16121

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agcagagact acaatgtgga catggtgcc aagtttatga tggcacatgg gacattgggt 180
cgagaccctc attcacactg atgtgacaaa gtacttgtca ttcaaagctg atgatgggag 240
ctatgttttc agcaaaggga agatttaciaa gggtcctgcc actgatatgg aggcgtctga 300
aatccccttt gatgggtcta ttcctgaagc gcatagcaag gaacttcttc atttatgtcc 360
aagattaciaa tgaagctgat ccaaggacac atcaacgtat agaccttact agggggacaa 420
ct 422

<210> 16122
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-006-Q1-K1-E12
<400> 16122

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cgaaatagcc gtcgccgcag ctccggctat gtcaatcttc gagtacaacg ggtccgccgt 180
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gcttcagacc atcgcaacag acttccagcg ggtgttcaag atccacgaca agctctacat 300
 cggcctctca gggctcgcca cgcagccca gacgctgtac cagcggttgg tcttcaggca 360
 caagctgtat cagctgcgcg aggagaggga catgaagccc gagacat 407

<210> 16123
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-006-Q1-K1-C8
 <400> 16123

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 gagttcaccc gcacgcgcgc gagccatggc ctccttcacc tgttcccagg tcggcgcgac 180
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 cactccgtcg agctccctct tcgttggccg gcgggtggca gcggtgcaga tgcgcgcgcc 300
 atctcgcggg gccgcggggg gctccgcgct gcgggtcacg tgcgagaagg tgggtggggat 360
 cgacctgggc accaccaact ccgcggtcgc cgccatggag ggcggcaagc cgacc 415

<210> 16124
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-006-Q1-K1-A8
 <400> 16124

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 cggcgggcct gctgtgggtg cccgggacga gcccggtggc gacgatggac gcggggccgt 180
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 tcccggagtc cgagtacgag ctctcgtcga ccgacctcgt cgagaaggcc ggggccgaag 300
 ccgaagccga agccgaagcc gcgcccgcga ccgtccccac caaggcagag gacgggaagg 360
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<210> 16125
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A9

<400> 16125

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 cggcggcggt ggcacgcgaa cgccggggta cgctccggcg gtcccggacg ggatgtcgca 180
 ggtgaacatc gaaggcaacg ggtgcaggcg gtcgctgcct ccgcagccga cctgaaggt 240
 gtactgccgc gccaaaccca actactccat gacgctccgc tacaggaagg tcgtgctgtg 300
 cccggagaac cccatggacg agtactatct actggatcaa g 341

<210> 16126
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B2

<400> 16126

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 gcctttgctc gccgaccag agggccatga cgactccgcc catctcacga ccttcgactc 240
 ggcgctcatc agacaaatct ctgcactagc atccctcgat cgttggatag ggacctacca 300
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 ctacca 366

<210> 16127
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B3

<400> 16127

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aactgcggag gtcgaaatgg cggcggccgt gcggcgagcg gaggagctgg cggagagggg 120
gacgggcggc cgccatggca tccatggcgc 150

<210> 16128

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B4

<400> 16128

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taagctagcc aagacaggaa taataatggc ggagtcgacg gtggcgagcc tttctgtccc 120
ggtgacgacg acgaccttcg cgggggcggg cggcggcgac gtgctgatcg gcgttccgag 180
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gttggtcgcc gtgcggtcca gcgggcggc cagccgctcg gagatcttcg acaaggtgtc 300
ggagagcatc aagcaagcgg aggagacgtg cgcggacgac cagaaaggcg acgccgagtg 360
cgcggcggtg tgggaagagg tggaggagct t 391

<210> 16129

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B5

<400> 16129

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ctctcgctcc tccaccaccg ccgtcgcggc gctccccagg aatgggcagc agcgggcgtc 120
gtcgctggtg ttctctctct gctgctcttc ctcttctctc gtcggcaaga cgctgctgag 180
gcaggccgag gcagcccggc cgtcgttcgc cgtgcgcgcc gcggcggatt ccgacaggcc 240
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cggtttgat ccctggggcc tcggatctga cccggagagc ctgcggtgga acgtgcatgc 360
ggagctggtg cactgccggt gggcgatgct cggcgcgggc ggtatcttca 410

<210> 16130
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B6

<400> 16130

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gttgaggaga ctgccctatc accattctca ttggaggaga gtgttgatga gacatccata 180
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gagtgatagg caggcccagg cttggagctc aagttttcca gaccatcaga ttgtgaacca 360
catttgagct gcgtgggagg gacgctcgac cgggtggctg gcagcggcag tggttgtatc 420
cattc 425

<210> 16131
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B7

<400> 16131

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ggccagcgcg gtgaagctct ggtacgacgc cggcggtctg ggcagcggcg cgtcgccgtc 180
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caggcccage ttcagcacca gctcggcctc gtctgcgggg tactcgccgc agagccgcgc 300
gttcgcggcg tcagcgagcg cggcgtgtg ccagagctcc agcaccagc ccaccagcac 360
gaaccggcgc tcgtcgtcgt ctccgcggtg ttcgcgctcg attggcc 407

<210> 16132
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B9

<400> 16132

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ccgccgctgc ccacgacgac ctgaagggt cgcgacctc tcttggtctg ccgggggtccg 180
gttcgcccga ccgccgtgtt gcggctgaca ccgcaaccac cctggacctg cttccggcta 240
aaggcgccaa gcgcggattt tctgactagg cgccgacgcc atcgcccggt gcacattccg 300
ggaagggaaa gaaggtacca gaagaggagg acgacaagaa ggttgca 347
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<210> 16133
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C12

<400> 16133

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atagggcacg gagggagtgg cctcgtgcga ggcgtgacct tcgtgcgcag ag 172
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<210> 16134
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C2

<400> 16134

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gcaactccaa cacgttgctc gcctcgtcga gtcttcaagc catcgtgccg ctggttctag 180
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ccaaagtcgg gcgcgttctt tccttcgcca ggcagcacct ccagtcgtcg tttcttttcc 240
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tgctgggtcg ccgggtcaca tgctcgccg ttttgatgtt gtgcacgttt cggcttgtgg 360
aactcgccgg cgttgtcagc tactactaga cctcacagtg gtactgtgat g 411

<210> 16135

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C3

<400> 16135

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ctccaacacg ggatgcgctt agcgcagtcg aaaatctatc atgccgtttg ctctagacaa 180
cgaaagacgc gaaatttcct tacgcagagt tgacctacag ctattaaaaa tttgggtacg 240
gaatgactgt taacatac 258

<210> 16136

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C4

<400> 16136

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tgctgggtgag gaagatatcc cagacgcgcg agcttcttag caactccaca cg 112

<210> 16137

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C5

<400> 16137

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tgcatacaca gaggaagag tagtttagtt ccgtggg

97

<210> 16138
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C6

<400> 16138

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ccgtgcgcgg aatgcccggtg gaaggagggg agagagggag ggcgcagtgt cagctgagct 180
gagctgagcc ctgataggct agctgtctgc ggtgctgtag aagaggtttc gtatgcgtga 240
tggtcattgg atgttactcc aggtacagtt cgtacaatgt gcttgggc 288

<210> 16139
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C7

<400> 16139

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tgtccaggac atgggcattg ctttgcacta tgagctgcgt gtggcgaaat ctgatcgtag 180
ccgttttatc gcaaagcgct caagagaagg tcgccctcgg cgtgtgcaca ttggtacgtg 240
ccctggtg 248

<210> 16140
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A5

<400> 16140

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tctgagtctg tcaaggatgc catctcccag attggtgggg atgccaagga gaagaatagg 120
aagttcactg agactgtgga acttcagatt ggtctgaaga attatgatcc acagaaggac 180
aagcgtttca gtggctctgt taagttgccc catatccctc gtcccaagat gaaggtgtgc 240
atgcttggtg atgcccagca tggtgaggag gccgagaaga tgggacttga ctacatggat 300
gttgaggctc tcaagaaaat gaacaagaac aagaagcttg ttaagaggct tgccaagaag 360
taccatgctt tcttggcatc agaggccatc atcaagcaga ttccccgtct ccttggctct 420
ggtctc 426

<210> 16141
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G7

<400> 16141

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tgctcgcccg cgccctggcc atgctccctg cgctcgccag ccgtgcgcat ctccctctgc 120
gcgcgcgcgc ctgcgtcctg cgccgcgaac cccgccgtgg agcttccccg agctcgcccc 180
atggcgcccc gccgagctcc tccctgccgt gttcttgctc ggcgctccgg tttcctgtgc 240
gccacggtct tctccccga gctcgcccca gcccttgta ttccccatgg ccggagcttc 300
ttccagctcc agctcggtatc cctctcccat ggctctctgc gtgctagccg ctgcgcgccc 360
atctatctct cgcggtatctt ccttccc 387

<210> 16142
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G8

<400> 16142

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tggtcttaac tgaatattca gaaaaaaaaa aaaaaagaag gaaaagattc cattgagaca 120
attatgactc cgattgagtt tccgttactc gaccaaaca gttccaattc cgctatttca 180

actacactaa acgatctttc aaattgggtca agactctcaa gtttatggcc ctttctatat 240
ggtaccagtt gtcgttttcat tgaatttgct tcattaatag gctcacgatt cgactttgat 300
cgttatggat tggtaccaag atcaagtcct agacaagcgg acctaatttt aacagctggg 360
acggtaaaca tgaaaatggc tccatcttta gtgcgactat atgagcaa at gcttg 415



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<210>      16143
<211>      309
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3060-005-Q1-K1-G9

<400>      16143
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cacctcagcc caagtaagtc tgcattggtta gactttcatg ttcaatctga agtggaagaa	60
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ttcaaaatca tgcagctctt tctactgggt gataaacgtt ctgcaggttc cagttgcggt	180
aagtgtgttc ttgtgggacg ccatgcagtt atgtaggag agtcatgcac tacgtatgaa	240
tgggaacctg taatgtgtgt gtgaggcctc tattgagtgg tcaccatcac aactgatctt	300
ttgctcctt	309

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<210>      16144
<211>      397
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3060-005-Q1-K1-H1

<400>      16144
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gacacacggg	actcgtcctc	gtcttttctc	tgctggaaga	gttggaattg	tcagaacact	120
agtggagtgc	aaggaatcta	gaattggaaa	gcagcccatt	gaagtccac	cgaatgttac	180
tctcacatta	gaagagcagt	ttgtcaaagc	taagggccca	ctaggggaat	tatctctcag	240
cttcccaggt	gatgtgaaga	ttgtgaaaga	agaatccggt	aacctgagag	tttataagac	300
tgcagagacc	aagcgggcga	accagatgca	cgggtcttttc	agaacattga	cagacaacat	360
catcgttggt	gtgtcgaaaq	ggttcgatta	gaagctt			397

<210> 16145
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-005-Q1-K1-H4

<400> 16145

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aagcgcccag agatnntagt cgctctcttn ttcttgggtg aacctcgaaa attttggggg 120
tagaagaagg ggcgcgttta gttttcttca gaccagtagt gaccagtagg attgggggtg 180
gtttgggctt ctcttttgtc aagtagccaa ttgggagggc gaaccaggaa agaccactgt 240
agaaggcacc tcttcgcgcc gccttgttca acgtaagtgg caagcaagag ggtgggcatc 300
aaaggggcac ccgatgggcg gcaaccatgc tatcgcaagc gtgtgtgagg gagagaccag 360
aggtaagac ctggcaaaca aggacagggg aaaggggacc cgtgatctcc atgcaaggag 420
aacat 425

<210> 16146
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-H5

<400> 16146

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ctataatcat cgcatacatt acgattcatc ctgaattga catgtgatct gaaaagaaaag 120
ggtgcttaga acaatccatg acgtgcatga gttactttca tatcactagg gcgatctact 180
caagcactat gccatctgta tctcgatctt ccgctgatca catactatgc cctaatttaa 240
acgcctagca tcatcatgtc taactgaaga tcaagatata actctacttc tatctatatt 300
aatatcattt catatatcat cctattacc 329

<210> 16147
<211> 335
<212> DNA
<213> Zea mays

agtcagccga gtctgctctg ctgctccatc ggatctcccc cgcgccaaac catgccgacg 60
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acgacgacct cccggcagct gcggtctgct cgcctcctg cgcgccaccgc gggcgtgcgg 180
ctgacggtgt cggacgcgga gctggagtcc cgcgggttcg ctgtgcggcg cacggcgga 240
ggcatcgacg tggcgggcgt gaacgaggtg ttcgtgcgcg tgggcttccc gcggcgtcag 300
gaggagcggc tgcctgcgcg gctggagcac agccgtgtgg tgtggctgtc ggccggggag 360
gaggaaaggc ggcccgtggc gttcgcgcgc gcggccgggg acggcgtgtt ca 412

<210> 16150
<211> 404
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-006-Q1-K1-A10
<400> 16150

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gcggcggcga acctgctgtc gcgctccctt ctccccaccc caaacactat ccggacgagc 120
caccacaccc cgcggagccc agccgtcgac tccttcccc gccgccgtgc ccgtctgtac 180
ctgtgcgcct tcgtcttcat ggtctacccg taccgaccgc cacagccgc ggtggctcggc 240
gtgccgaagc actgcttccg gcgcggcgcc gacggatacc tgtactgcga gggagtgagg 300
ctggcagacg cgatggcggc tgccgagcgc agtcgctgat atgcctacag gcagcttcac 360
atactacgca acttcgcgcg ttaccgcgac gctctccagg ggct 404

<210> 16151
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-006-Q1-K1-A12
<400> 16151

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tgtgtagggt tgtctccaga aagcttgctt gttacttata tccacacac ttgcgcgcac 120
gcaaccggc ctttgtccct ctcttgctc tcaactgctg tgcccctcgc tattcttctc 180

tgatcgattt ctgtcatggc ttcattctgg ttcagctgcc gctgtagcgg gatgaccag 240
 gtttgccgca gatgaccag gtgggactat gcgggtggccg gcagccccag atttggtggg 300
 ggatgagata ggaggtggct gcatggcett tcttggttgg tttctatcga tttcctatgt 360
 tgtgtctctt aatcctctca gctctctact tttggctagg cgtcaaggac gccacgcga 420
 tgcctta 427

<210> 16152
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A3

<400> 16152

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 gcatactgct tcctattcag cagtgtggat cttccggtca atacaaatgg agaggaacca 120
 aaatgattcg tagctgggta ccatactttc gtgttatccg atggcagctt attgcagcat 180
 tgtagttcac aaggetaccc gagctgcaga ttatgggtga ttctgcattc tgaccactga 240
 ttgctcttta cctgaacggt atacatattg gatgatatga tcttggtgtt 289

<210> 16153
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G6

<400> 16153

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 catcatagat cgacggacta ggccacgcgc cccaatactc agaactagtc ttgagtaaag 120
 catggcgtcg tcttctccgt cctgccgtgg cagcggcggc aagtcggacg tggaccggat 180
 caagggcccc tggagccccg aggaggacga ggccctgcag cgcctggtgg cccgccacgg 240
 cgcccgcaac tggteectca tcagccggtc catcccgggc cgetccggca agtcgtgccg 300
 cctccggtgg tgcaaccagc tgtcgccgca ggtggagcac cggcccttca cggccgagga 360
 ggacgacacc atcctccgcg cgcacgccag gttcggcaac aagtgggcca ccatcgcgcg 420

<210> 16154
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-F1

<400> 16154

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gttggttact ctttcctccg gaagaactgc agaggcccat cagtcacgct gcacattcca  120
cacattagtc tgatagaagt cggcatgata tactatgttt agcttaaggc ccattgccga  180
agctcacatg tggatacccg gtcggggcaa tgcttgtgct gtctgcggat tgtggtgtgg  240
aaggagttca ggcttggtcg ttctgggcca agtttcagct tgtagagaag aaggcagact  300
tctttgttaa tattatTTTT agcctaaata aaccagcaca atgttagacg gtgatggttc  360
tcatttgcca tatttgcata catgctctgt aatttttctt gcagctatgt gatggaaata  420
tatccattat ctttaaaaaa                                     439
  
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<210> 16155
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-F10

<400> 16155

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cgtgcccctg tcgcgataga tggctcgtgg cccccaacga cgacgaccgc gccgccatga   60
ccaccaccac cagccccacg gcggtggcgg tcgtgaacgt ggtcgcagtt gcgcagctct  120
acgtcggggc tccacctgag cgcgtccctc cacctcgccc gtggccacga aatcctcttc  180
catggaatcg tcgcgcatcc tctccacct cgaccgccgc ggccgattcc caccgccacc  240
acgccgcgca cgccccgtcc ctcggtcccc cgttcgcctc ttccctgccc ctaccccccg  300
cgtctaccgc gtcctcgcc cctcctaaca tcgtcgtctt catctagcgc gacagccgat  360
gcacggcttc tagctcagtc cgtgccacgc ccgtgggga                                     399
  
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<210> 16156

<211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-F2

 <400> 16156

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 aggggacgct cgggggccacc acggtgcggt acaggctgaa cacgctggtg gcggatctca 120
 gaccgctgct tattaacaag aaggatctgc gattacggca ctttcacggc atagacgaac 180
 tgtacagaga cggcattccc gtggcgggcg agaccgggtt cgacgccata tcgaccgtgg 240
 aaccgggcat ggccaagctg gtggaggaca ccaccgacca cgtcctacgc ttcgaggtgc 300
 cggaatgat agagaggac c 321

<210> 16157
 <211> 194
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-F3

 <400> 16157

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 agcaccagtg cctgatcgat ggcgggcccat gctctcctct ccggccggca gctgctgggc 120
 cgccccgtgc agtcggccgt ctctaggtcg tcggccagga aagcgccctt cgtcgtcagg 180
 gccagctcca gccc 194

<210> 16158
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-F5

 <400> 16158

 ggcagcacac tcagctatcc agcaaaagag atcgagaggc aggagtcatt gccaccgtca 60
 gcgccgccgt ggtgaccacc atcgttgccc gcgcccgcat cgccaggccc aatgctctag 120
 ggctgcctgc gctgagggcg aggagcgaga ggggtgcggtg cagctacgcc aaggacgcgg 180

<211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-G12

 <400> 16163

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 ccatcgctgt cgtcgggctg ctgctgctga acgggaacgc cggccgccgg cgggtgtacac 120
 ggtgtggaag aggtccagca tgggcttgca gggcacgcac ggcttctgctg tctacgacga 180
 cgccggcagg ctgcggttcc gcgtatacaa ctactccgcg cgctcaaaag ctctgcgctt 240
 gcgacctgct gctcatgga 259

<210> 16164
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-G2

 <400> 16164

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 catcaattcg tgtcaccgtg tcccagagagc gcaaatcatt ccgcgcgacg caaaaaccct 120
 agcccagcca ccgatccctc tcatggcaac caccaccacc caggcgagcc ttctactcca 180
 gaagcagcta agagatctcg cgaagcaccg ggtggatggg ttctctgctg ggctggtcga 240
 cgacagcaat gtcttcgagt ggcaggtcac catcatcgga ccggctgaca ctctatatga 300
 tggaggttac ttcaatgcaa taatgagctt tccacaaaat taccxaaaca gcccggcatt 360
 agtcagatth acctctgaaa tgtggcattc aaatgtctat cctgatggg 409

<210> 16165
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-G5

 <400> 16165

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gaacgtgtcg accaactga acctggaggg ggtggacacc tccgccatcc tcgccgaagc 120
ctccaagtcc gtcgccaaca tcatcgga gcccagggcc tacgtgatgg ttgtttctcaa 180
gggttcggtg cctatggcat ttggaggtac ccaggagcca gcagcttacg gtgagctggt 240
ttccatcgga ggcctgaacc ctgatgtgaa caagaagctt agtgctggca tcgcttctat 300
cctggagtca aagctgtctg ttcccaagtc gcgcttctac ctcaagttct atgactcgaa 360
gcgctcggac ttcggttgga acggctccac cttctagact tgaggtctgc agctgaaatt 420
aaagaaa 427

<210> 16166
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E8

<400> 16166

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tgcagctacg agacggggcac gagctggggg caggagggtg gctgggtgta cgggtccatg 120
accgaggacg tcttgacggg gcagcgcac cagcgcgcg gctggaggtc ggcgctcctg 180
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cagtacaaga gatggggcag gggcctgctg gagatcgctc tcagccgtca caaccggttc 300
ctctatccg cgtccaagcg cctcgtttc cggcagtgc tcgctacct tgctatcgac 360
gtgtggcccc tcagggcgc cttcgagctc tgctacgcgc t 401

<210> 16167
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D1

<400> 16167

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tcgacgcgtg gccgcgctc cgggcgcgc gcgaggtac aaggccatgt cccccgcgcg 180

gctgccgatac tcgcggggagc catgcctcac tattcccggc gggttcagcc ccg

233

<210> 16168

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D11

<400> 16168

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aaggctttat gctcaatgca aggaataggg aaatgttgaa gacttgcgca ctaagaaaga 120

aagagaaaag gcaatgttgc ccctgtagta cttagattc atatttgcaa gcttcatggg 180

cattcttgta atttcataca tagttatata tcgcccctat aaatagagaa acagttctat 240

gcataaattc acctttttcca ggggttaacaa cttcatttaa ctcagtattc gaagtacctt 300

cgcgctgttt cttgtgtcaa gactaaggct gatgcaccac tggctaacac attcatatac 360

gtagagtata tccatagggc gatgcatgga agtgacacgg gtgcatacta cgc 413

<210> 16169

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D4

<400> 16169

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ggcacaacat ctttgacgat ggcggattcg gtgaagtcca tgctgaccca attaaagtcg 180

agcgtccgca caagcgtccg ccgcagaagc agaatgcgga gaatggaacg acgacgaagg 240

ttgatgagcc aaaggaattg cctaagcacg tgtgcttcaa gggagacaac gggctatacc 300

tgagcgctcg gatgggtggaa ggctaccct acctgcagtt tgcgtcggac gacataggcg 360

atccaagtgt gaggttcacc acgtacaac 389

<210> 16170

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D5

<400> 16170

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ctcctcgtcc tccaccaccg ccgtcgcggc gctccccagg aatgggcagc agcgggcgtc 120
gtcgtcgttg ttctcctcct cctcctcttc ctccttcttc gtcggcaaga cgctgctgag 180
gcaggccgag gcagcccggc cgtcgttcgc cgtgcgcgcc gcggcggatt ccgacaggcc 240
gatctggttc cccggcagca cccctccgcc gtggctcgac ggcagccttc cccgcgac 298

<210> 16171

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D8

<400> 16171

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atcgaagatt taccctgtgg tggtcaccaa ccatcaatcg tgcaaacgtg tatgttggtt 120
tccaggtcca gctagatctt acggggatat tcatgcatgg gaaaatcccg acgttgaaga 180
tttctctgat ccagatcttc cgtgcacatc tgtggcaaaa gatccatgaa agtgttggtt 240
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aggagacaat acatcccagg aagagttaca agatgaacag ctctgtgtgt gatatccttc 360
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<210> 16172

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D9

<400> 16172

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accccatggc ggccttcgct acgggcagca ccacagcgcg cgcgacgctg gcatcgccga 120

cttcgtgcca gccggccgcg cgccggggcg cgccccgatg gatgccgctg cgctgctcgc 180
 cgccggccct gggcctcagg ggaggagcgc gttctcggcg gagcgccacg ctacgggtgg 240
 aagctaagaa gcaaactttt tcttcatttg atgagttgct ggagaagtct gagaagccat 300
 tgtagttga cttctatgca acttggtgtg gtccatgccca atacatgggt cccatacttc 360
 aagaagtgag tgagaagtta ggcgacaaaa ttcaagttgt gaaaattgat actgagaagt 420

<210> 16173

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E11

<400> 16173

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 ggtggccccg gccggcttcg gccgtcacgg ctgcggcggt cagcagcacg tcgtcaagga 180
 gaagttcgag gaggtcgaca cggtcgaacg cgccggagcc aaccaccacc accaccatgg 240
 tcaccacggt ggtcacgggt tcgtggctcg cgagaccagg gttgaggagg acatcaacac 300
 ctgcaccggc gaggttcaca agcgcaggga gagctttcct cgcaggggta actgagcagt 360
 ctgggctggc ggcattccacg cccgttcgag cctggctcgc tgccttatgt at 412

<210> 16174

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E12

<400> 16174

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 gccggtggcg gccaccggga agagaagtta gatactcac cagcctgcgc gcacggaaca 120
 atggcgcacg cgaaggccgt cgccgtcctc ggctgggtga tcgcgtcgct cctcctcgcg 180
 gctgagagcc gccacattgc ccgaaaagac ctgggcgtct gccttggtgg gggcggcagc 240
 ggcggcggtg gcggcagcct cgggtgtcggc acgggtggtg gcgtcggggt tggtagagc 300

ggcggacttg gggttggcac ggggtggcggg ctgggtgtcg gct

343

<210> 16175
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E3

<400> 16175

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ctgtggactc actgctagca cattaatggg taccgtctg gttgacctg tgacacacaa 120
ctggcgcatc atgggacgga tagagatctg gttgccccac aagtcgaatt ctgcatgcaa 180
taaagtgacg aagacatgga cgctactatg accggccgat gtggttcccc ggcaccgtag 240
ctcccgacta cctgtactga tcaatggctg gggactactg gtaatacccg ttcggtgtca 300
gaaagtcctt agagttccat cagtttga 328

<210> 16176
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E4

<400> 16176

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ggcgccgccc gaagcgctc cctcgatcca gatccaggag atatgcctcg caatgatgat 120
cgctatggga atacacgctt gtatgttgga agattgtctc cccgcacccg ttctcgtgac 180
ctagaatacc ttttcagcaa atatgggaga attcgagaag tggagttgaa gcgtgactat 240
gcattcattg aattcagtga cccccgtgat gctgatgatg cacagtacaa cctaaatggc 300
agggacgtcg atggaagccg gattat 326

<210> 16177
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E5

<400> 16177

gaatcccgtt cgaggcacgc gtcacgcgtg cgagatgggtt caaatggctg tcttgctcc 60
tactggagat atgactgctg gcagaagaac cggtaaattg ttgcttaata gctgtcacga 120
acaactagca catcaaagga aggatagaga aatggcaacc ccacaacttg aattcagata 180
gcaataaaact aacgaggaca tgttcgaaat gaggaagcac agacttgctg cactgggaca 240
ggatctttcg actaccgcta ctgatcaacc atttggctct actggcacat ccacatttgt 300
cgtcagagca ttctcagagt atagagggga ttgagaaagg ctcttgatcc t 351

<210> 16178

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E6

<400> 16178

acaagtttgg gttcattggt atggatggta atggtactct ttttggcaca ctaagtggca 60
ataccctga agtgcttcac aaattcactg ttgacctccc aaagaagcat ggtagaggag 120
ggcagtctgc tctgcgtttt gctcggcttc ggatggagaa acgccataac tatgtccgca 180
aaacagctga acttgctacc cagtttttca tcaatccagc tactagtcag cctaattgtg 240
caggattgat tcttgccggt tctgcagatt ttaagactga gctgagccaa tctgacatgt 300
ttgatcagcg actccaagcc aagatactta atgtgggtga tgtttcgtat ggtggcgaga 360
acggtttcaa ccaagctatt gaattatctg ctgagattct agcaaagtgt aaattcattc 420
aagaaaa 427

<210> 16179

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C8

<400> 16179

ctggtttcag gctgttcaag agcggagttt aactagcga ccattgtgga actacaccga 60
tggatgtgaa ccacgtgtt ctggctgttg gctacggtgt cgaagatggt gtaccctact 120

ggctcatcaa gaactcatgg agcgctgact gaggcgatga gggttacttc aagatggaaa 180
 tgggcaagaa catgtgcggt gttgttacgt gtgcatecta ctttatggtc gaatgaggcc 240
 ttaacaaagg gtaacatg 258

<210> 16180
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E7

<400> 16180

acatggttga gatgattgtt atggattgta atgggtactct ttttggcaca ctaagtggca 60
 ataccctga agtgcttcac aaattcactg ttgacctccc aaagaagcat ggtagaggag 120
 ggcagtctgc tctgcgtttt gctcggcttc ggatggagaa acgccataac tatgtccgca 180
 aaacagctga acttgctacc cagtttttca tcaatccagc tactagtcag cctaattgtt 240
 caggattgat tcttgccggt tctgcagatt ttaagactga gctgagccaa tctgacatgt 300
 ttgatcagcg actccaagcc aagatactta atgtggttga tgtttcgtat ggaggcgaga 360
 acggtttcaa ccaagctttt gaattattct gctgagaatt tagcaatgtg aaattcattc 420
 aagaaaagaa at 432

<210> 16181
 <211> 128
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B1

<400> 16181

aatctccggc tctccttctc ccacacgcac gtctcctccc acgcgcacgg ccttgccgtc 60
 ccgaccgcgc cgcctccggc gggccctggc ccgaccgcgc cccgccccag ctcttccgac 120
 cgcgcccc 128

<210> 16182
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B2

<400> 16182

catctccttc ccttgacgtg ctgcccagg tgcgcgcgt ccagctcgcc ggccgaactc 60
cctcagcttc gtcttcaacc accgccgacc ccatggtgag ctgcacaaa ctccatctcc 120
ctgtgcgccc tttgttctgc tccaaccgtt ctccacgccg tgttcccccc ccatggctcc 180
ccttgccctct ccggtcagca ctagcccgaa cggatatagca gcataccggt gccaaacccg 240
tgttcgcgac gcttgccaag tgctcgatga aataccgcag tgagctccac ctgagttgt 300
gcagccccaa ccgcgcagct tgcaacaccc ttgccctccg tcgatgttgc gct 353

<210> 16183

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B4

<400> 16183

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gccctgtact tcttcttcaa ccaccggcga ccccatggtg agctctcaca aactcca 117

<210> 16184

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B5

<400> 16184

ggccaagaat aacagaccaa gagctgcaac aaatatctgg agattcaaat tccacaatcg 60
ttccattggt cgagaaggtc ctgagtgcga gtgatgcag ccgcataagg cgccttgctc 120
ttccaaaagc ttgtgccgag gcatattttc cccaatttc tcaaccagaa ggacgcccct 180
tgacaattca agatgcaaga ggaaaagaat ggcattttca gtttaggttt tggccaaata 240
ataacagcag aatgtatgtc ttggaggggtg ttacaccatg catacaatca ttgcaattac 300
aagctggcga tacagtgacc tttagtcgta tagatcctgg agggaaactt gttatgggct 360
ttcgga 366

<210> 16185
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B7

<400> 16185

ctccaatctc catccttcca tcttccgctc ccttccctgc ttgcgctcgg cacgcaggcg 60
acctcggcgg cgcttgggct cggcctctca gcgacggcgt cagcagattc cctcctgcc 120
tctcgccagt cccctcgctt ctggctctct gcgaaccggc cggtgactct gcgaaactat 180
tccagcacag gtacccaagt atggcggcaa gacgcaatgt tcggtactcg cctcttcctt 240
cagaggacgg ggatgacagc aattttatta aagaagatgt tgacctcga tacacttaca 300
ctccgaaatc gtacagaagg atcccatgga agtcaattgc cctggcattg ttcctgctcc 360
tcctaggaac ttcacttctc tttctttctt acttcatatt cacaggtcac atggaagggt 419

<210> 16186
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B8

<400> 16186

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gacagtcagc catgggtgatg gtgtacatga tggcgacgga ggggatgaac gtgaatgatg 120
agtgtcagca ctggtttatg gtgatgaagt gtaagaagggt gcaccggctt gtggtgtaca 180
atatcgacga gcggctgcac gcattgctgg tggacacagt gggcggctct ggggatgggt 240
tcgaggagat cgtgatcaca ctgatctgct tcaactgcat gtacaccttc tttgaattca 300
acttcgtaac tggtgacaac tgatacaaga gcaagaaatt 340

<210> 16187
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B9

<400> 16187

caagatgttt gtttccattc catcggtggc acgagacagg agacgccaag gccatagcta 60

gagcctagag cagcagcaga ggcttgacct gaagctccac ccgccatggc attcacgccc 120

gctacggcct gctgcaaggc ttccctggcg ctggcaccgc gggcgtcgcc ccgcgggccc 180

gcggcctgcg cgcaggcggc gctcctctgc acgcctcca cctccgtgtt ccgcggcctc 240

cgggcgccc caccgcgc gccggcccc cgccggcgcc gtcggcggc gtccacgggc 300

atagtctgcg gcaaggtagc tggcctcggg aatggcgtgc gtgcgtgcgg gaatccgtgt 360

tccacacatg gcggtgattg gtttggtagc cgtggtcgtc tcctcgttgc aggtcgccaa 420

gggcagcg 428

<210> 16188

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C11

<400> 16188

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gtcttcgtcc gtagatcaga tagcggggag gaagaaaaag cgatcgatgg cgtccaacta 120

cgtggacacg acgggagagg agggacggtt ccacggccct cacagccaca gcaccagcac 180

gaccccgacg ggcggcgagg cgccggcggc ggcacgccc cgcaacttcc ggcgagctt 240

ctcctccgcg tcctccgagg gccacagcca cgccggcggc ggcggcagga ggcggcagca 300

ggcgccctcg gccgcgtcgg tcgtcgagg gattccg 337

<210> 16189

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C12

<400> 16189

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agaggctcaa gatcgaggcc ggcgtggcaa cgccggcggc gctgggcgcc ggcggctacg 120

cgtaccacga gcaccgcgag cagaaggagg cccactacga gagcaggcag caggagcaca 180
 ggggtgccga cgggcacggg cacggctact cctactactg cgactgaaac gactgatcat 240
 cccatcgatc gagatatgca tgcagaactc gatatatata cggtccttag cgccgtacac 300
 gtgcgtgcgt ggtagtaaat aagagcaaac gttgtcacgt gttgtgttgc tcgatcacta 360
 cttcatcgat ctacttatt 379

<210> 16190
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C2

<400> 16190

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 cacaaatggc tggcagagca catccatcga atgatacggc cacaccttcc catgtgccac 120
 tgattgttcc atctgctact ccaacacatc aaatgtctca tcctttaggg ggttcatctg 180
 ctccaccact tcctctccat gacacaaatc cgcattgccag tcagtctgca aatcttctaa 240
 caccagcttt ctttgcacca ccaccaccct cttcaacatc tgtgacacca cctgcttcat 300
 ccatgatgcc tacagcacca cctcttcacg cgacttcaac agctgctcaa catecttcat 360
 atggcacttc cttacttcaa cctttttccg caccgttttc 400

<210> 16191
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C4

<400> 16191

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 agagaaagga cgctgttgaa aacaccatgg tggcatacaa ggctgcccag gacattgctt 120
 tggctgagct tgctccaact caccctatta ggcttggact ggcactcaac ttctcaatgt 180
 tctactatga gattctcaac ttaccgcgac gcgcctgcaa tcttgcaaag catgcttttg 240
 acgaggccat cttggaactg gacaccctga gcgaggagtc ctacaaggac agcactttga 300

tcatgc

306

<210> 16192
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C5

<400> 16192

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gacgccgtta taagatactt gaaccgcaaa ccggctaacg agggcctagg tgggtggtgct 120
ggtggttctt gaggcgtgga tttctcctag ctatcttagt gtataaacia attatctgtt 180
ctgtattggc agtaaatttc aggcgtatta gtgaagataa ttgttcagtg ttgtgaaatg 240
atgttcaggc tagtcattgt atgtttatgg tgtgttctat attgtcaagt gctgaactga 300
accgtaatgt tgcttggtgt ggccctgaaa atagtaagcc taaatcacat tctaaaaaac 360
tggaatgcag gatttgatag tagcctttcc at 392

<210> 16193
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-005-Q1-K1-C6

<400> 16193

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ctctctacct agctctagct agccttctct tagcgcgga gagatggctg cccctgcctc 120
caccacggcg gcggcgggcg cagcgctgct gctgctgctc ctctgtcgc tcgccgcggc 180
ggcggacatg tcgatcgtgt cctacgggga gcgcagcgac gaggaggcgc ggcggatgta 240
cgcgagtggt atggcgggcg acggccggac ctacaacgcc gtcggcgagg aggagcgggc 300
gtaccaggtg ttccgggaca acctccgcta catcgacgcg cacaacgccg ncgtcgacgc 360
ggcggtncac tcct 374

<210> 16194
<211> 306

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-005-Q1-K1-C7
 <400> 16194
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 ccgtgcgtgt gtgttggttag agatggctac agcagcttac gtccccatgg cgagccaggt 120
 gatgaagagc agcccgggtgc actcgaggcc gaggggcctg tcaggcgctg cgctcacgcg 180
 gccccggccc cggttcagcg tcgtcaaggc cgccatccag cccgagaagg caacgtacca 240
 ggtggtgcag cccatcaacg gcgaccggtt categgcagc ctggagacgc ccgtcacctc 300
 cagccc 306

<210> 16195
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-004-Q1-K1-G9
 <400> 16195
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 cattcccctc atcttggtga acggtgagaa gttcctcgag aagaacgatg tctgcgcgct 120
 cgcacaggct tgtccagcga gcagtaggaa gacgttcagc tcgatgttga agggagcggtt 180
 gtggagtgc gcctggcttg aaggttgaag aagaacacac ggagcgggtt agcagtggtc 240
 agaaatagtg tgaacaagtgc ctgtgctgta catataataa tgctgtgtat aaacgcgatga 300
 aggacgtgtg ccctgcatac ttttcgtctt gtatcataaa ttcattaaca cgtctactta 360
 agttattggt ta 372

<210> 16196
 <211> 212
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-004-Q1-K1-H1
 <400> 16196
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acgctgggct gatgctaagt agcgagggtc acacgtgcta ctactacccg gacgttggga 120
cgagacggaa gctatgcgcc gggagaaacg tcttgcgaga gaccgccccg cgtgacgcat 180
aggctgattc ctgccgtcac ggcaagagga ag 212

<210> 16197
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-H10

<400> 16197

gctatttggg gcttgaatgt gactgttctt tttacttttt gctaagcctt atttaaagtt 60
tgtataccat ggaatatgta ggatttgtcc agtcatttta gtgctgaggg ggtctttgtg 120
tttttgttgc agttttcctg gtggctcggt ttgtattgta agagggcact cactgacata 180
agtactaagg cactaagaga aaatacacac agataagtat ttataagatg cttgtgatcc 240
atagcatgat ttttgtttcg ttttgaaga gaaaaaaatt ac 282

<210> 16198
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-H12

<400> 16198

atttcagaat ctctctaggg gcacaaggac tcaaggggtt cagcctccat tttcaaggaa 60
aggcagtatg gtctcagttc tgagtggcag gaccaccctg agcttggagt gttgagaagc 120
aagtgggtggc accttctggg gtcattaaga cttaatgagc ccatcacagg tcagggaatg 180
gaactaggag tcgggtggag gtaatcgagt ggggtgaata atgcttgctg ttcaacagca 240
gctgcccagc gtcccagggg actcccatgg gccactttaa cctaaagggg aactgccttt 300
atgggcctgt cgtgtctcat cacagcacat ttctaagttg gaagagcctc aacttccacg 360
gctaaatctg aacttactgt ttgctcagtg cttggttcca 400

<210> 16199
<211> 356

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-H2

 <400> 16199

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 atcatcaaaa tgggggaaga ggaagaagct tcaagcatatc gaaacaacca ataaagcggt 120
 accaaaaactt ttgattgacg gaccatatgg ttcttctgca caagactaca gcgagtatga 180
 cgttttacta cttgtgggat taggtattgg tgccacacct tttattagca tactgaaaga 240
 cctgctcaat aacatcatca aaatggagga agaggaagaa gctttatgcg atctttaccc 300
 accaattggt cgcagcaagg cacatgttaa tcatgacacc cttatgagga ttacct 356

<210> 16200
 <211> 105
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-H3

 <400> 16200

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 tcaagcggat gagatcacia aggcactgtc tacgagttca gaaca 105

<210> 16201
 <211> 101
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-H5

 <400> 16201

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 gattatgcat catacgaagc cagtttcgat gctggtgtgc c 101

<210> 16202
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-H7

<400> 16202

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gggatgagga attttctgca ctttctcacc ttgaagctag tgatctggga atttttttgc 120

cccatttgct atcaaaaacc ttcacgcagt gttattttgc aggtaatat gaaccaatg 180

aatcaaacaa tatcggtcaa catgttgaag atgtcttatt caatgcacca attagtgcct 240

gcaagccact atccccatcg cagcatcttg ccaagaggat tgtaaagctt gagaagggtt 300

tgagatacta ttatccagca atgtgctcaa atcaccaaga tgaaaattct gctcttctgc 360

actatattca gactcatcaa gataatgtta atcaaatga tctacttcaa ctacttgctc 420

ttggtggcaa gcatccagct ttt 443

<210> 16203

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-H8

<400> 16203

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gcaaattgtc tgctgctagg cggctctgcc ttctatcgcg tggcgcggtc gttctgctag 120

ctcatccg 128

<210> 16204

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-H9

<400> 16204

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gcatgggcaa cattccactg actctaggca ctatc 95

<210> 16205

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A1

<400> 16205

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ttcagatggg tgtttctgct cttgctttgt ctcaatgcga ggcgatttgg cactttcaac 180
atgtgcggat tgcacatca aaatctactc gattgaaaac tggtgacatt gattcgacag 240
acccaactat tggtttctta ctagatggaa taagcaaact ttgttgactg gttcgtaaata 300
acataacagt gctggaagaa taccgttctt actt 334

<210> 16206

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A10

<400> 16206

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gatgggtctcc ggaggacggg cggcgctggg ggtggcgggc gtgctctgcg cggtgggcggc 120
catggcggcg gcgcagcagg cgtcgaacgt gcgggcgacg taccacctgt acaaccggc 180
gcagaacggg tgggacctga accgcgtgag cgcgtactgc gccacgtggg acgccgacaa 240
gccgctgtcg tggcggcaga agcacggctg gacggccttc tgcggggccc cgggcagaa 300
gggccaggcc gcctgcggca agtgcataag ggtgaagaac cgtgcgacgg gcgcgttcat 360
cgtggcgagg atcgtggacc agtgcagcaa cggcggcctg gacctggact acgagacggt 420
gttc 424

<210> 16207

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A11

<400> 16207

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ggcgttcttc atgatcggag tccgcaacaa gagcatggag gaggcaatgc atcctctcca 120
ctccccgtac ttcgtgatag atgaggacgt tctgcctgta ggagctgcct tccactctgc 180
agtagcgatg gagtacctga acaaatactc aacgaccggg caaactgagc tgctgcgcat 240
tgagctgtga tagattattg cttgtaataa gggttaccat gccgagggtca tgttgacaaa 300
aagaaagtct gcattgtgcc catggaataa atacagtttc tccaaaaaaa aaacataaaa 360
aaaaagaata tataatat 378

<210> 16208

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A12

<400> 16208

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aagaaattct gcaaagcaac tggtagatcc ccaacattca gaaagtgatg ttactggtat 120
cagaggcaca agcaataaac ttggtgctaa tatctcgggt ggaaatcatc aaatacgacc 180
tacgatggca gaaccttcat caatgccaac aatgggacct ctatcaaaag cccctcgctt 240
ctagtgggta tgcttctctt ccctatcgaa ggaaaaattc cttttcagga caatctacct 300
ggaaaacaac ccgtatgctc taactcaagg attgctagca agtggaagca caataaatcc 360
acgagcatct gtggcaaact gcagatgctt gtcttacagt tacaggaaag cagttgctga 420
c 421

<210> 16209

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A2

<400> 16209

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gaggtegacc cggagctgct caagaccttc gaccgcctcg gcatcccgtc caccgagcag 120
aagcgctct ccaacgtcgc cggtgacgcc gtcacgact ccacctccat cgccaccacc 180

caccgcgaag cgctcatggc caagggcgtc atcttctgct ccatctccga ggccatccgc 240
gagtacccgg accttatcag gcgttacctg ggcagcgctg taccgccagg cgacaactac 300
tatgccgctc tcaactcage ggtgttcage gacgggtcct tctgcttcgt gcccaaagac 360
acagtctgcc ccatggaaat ctgcacctac 390

<210> 16210
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G6

<400> 16210

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gagggccgctc tcatccgagt taaggaagcc atggagcaca aggaggctgg gtgccaggcc 120
cccgagggac ccatactctg catcaataac tgtggcttct tcggcagcgc ggcgacctg 180
aacatgtgct ccaagtgcc caaggagatg ataacgaagc aggatcaggc caagctggct 240
gcctgctcta tcgacagcat cgtgaacggc agcgacgccg tcatggagcc ggttgctgct 300
ggcagcaaca c 311

<210> 16211
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A4

<400> 16211

agaagctgtg ttccgctccc taccgtgagc ttctgctagc ggggtgcctg cggaggagag 60
actgggatgc catagacagt ggtggcattg tgaacacggg cggagtcaat gactaccccg 120
ggaagcttac cctcttcattg gagatcacct gcacgtcga cgacaccggg ggtctcatTT 180
tcggatatga catcgggtatc ttaagcgggtg tgacgtgcat gaacc 225

<210> 16212
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A5

<400> 16212

cgtaaacta atgatcgtag cctacacttt tctttcta at gctatctata tatgcttgag 60
tttgagtagg gttgtctcca gaaagctaga ttgttactta tatccacac acttgcgcg 120
acgcaacccg gcctttgtcc ctttattgcc tctcact 157

<210> 16213

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A6

<400> 16213

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cgctaccgtc tcacagccgt aaagccccct cccggatccc gctagttcgc caccgccgcc 120
cgcccgcccg ccgttcgcct catcatggcc gctcgtcga ccgccacctc cgtccacgac 180
ttcatcgtca aggatgcgag cggcaaagac gttgacctca gcacctaca ggggaagggtt 240
cttctcattg ttaacgtcgc atcccagtgt ggcttaacta actccaacta cactgagctg 300
gcccagctct acgagaagta caaggaccaa ggctttgaaa tcttggcttt cccatgcaac 360
cagttcgggtg ggcaggagcc tggtagcaat gaggagattg gccagtttgg ctgcacaact 420
tta 423

<210> 16214

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-005-Q1-K1-A7

<400> 16214

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gtgcgaagag agggtagcag cagtaccggt tgttctatcc gttatttgc taggnngctg 120
actgtcctgc atcggactcc annaactgaa gaggctcaac gtctttacca atgaacgcgg 180

ctgaagcatt atcaaagggtt cttatttttca gatggccatc gcctcggatt ggaacaagnn 240
ccaggcagcg gcggccccgaa aggggtcttg acgatgacga tgcctcgtec gtggactctg 300
ccaagacctg gagccatgag gagacccccga caccgctgag gcagaggtat tccaggatcg 360
gctcgtgttt caacaagcgg acctacgcag caggcaaggc ttcacctagc gaagcagtga 420
agaagggtgg agtgggtacaa ccagctgggtt ctactttact ttcg 464

<210> 16215
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E2

<400> 16215

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cgccgggcgt ctctccaatg tagcggccgg gaaagaagag actaccacca gttgggactc 120
gctggtacct ggatgtctgc gacatgtgct t 151

<210> 16216
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E3

<400> 16216

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ttcgcgaggc ggaccgcctc tcgctcgagt acgacttcgt ccatgggggc agcctcgttg 120
atctgatgaa gaggggtgagg tgctagcaag tcagcctcgg ttgggatgcg aggagcagga 180
ttgctgttgg gattgccaaag ggactgaggc acttgcatth tgagtgcgat ccgatgatag 240
tcactgcaa cctcaagccg tccaatgtga tgctagacga aagtttggag ccattat 297

<210> 16217
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E7

<400> 16217

acagctccgc tcgtcgatca gctctcggct gaccactcat cgccagtggg tgcctgccga 60

ccaggtctcg ccgtcgtcac cgtcgcggta gagaggggag ggagaggggg agaaaactgg 120

cccagatcga gaggtacagc acgaaaaaga gaggcaagag agatagggga ccggagggcg 180

gagggccggt gccaagacc gaggggctcg tgcgcatgaa gctgatgagg ctctgtctc 240

tcgtaccctt cggtgccgt gctggacca tcgacga 277

<210> 16218

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F1

<400> 16218

gggtagacga gctgaggag cgtagggtgg cggtttaaga agttacggaa gcgttgaggc 60

tcgaggagga tagattgc 78

<210> 16219

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F10

<400> 16219

cggacgcgtg ggcggacgcg tggggcatgg gcagcaatgg ccttggcttc aggcagggtg 60

tgtggtcacc gcaggcccag ggtcagggt tgtcagggt tgaatggatg atccctgtga 120

ggggtcaata ttaaagcaaa ggtcagggtc ggcttggagg gcttgggtga acacctcagg 180

tcactctaga agcttttaag tggtcagtgc attgtttgta ggccggaagg acagctgata 240

tgctccttgg tgatgtcctc ggtgggcacc agccagtga gagctctgtg gtggggactg 300

aggagttgt ttagaggcgt ttggaccagt gcggcagtca agctgtcttt ctgcagtga 360

gaggactcac caaacaacaa aga 383

<210> 16220

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F12

<400> 16220

cggacgcgtg ggggagctgg gaatttttga taactgttaa ggacatcaac tatattttta 60

aactgaagtg cagttgattt acattcctgt atttgttttg ggggtgtacaa cacagtgatt 120

caatattttt atgaaataaa ctctatttaa aggtatcaca cacacaaaaa aagatgaaaa 180

tacacagatt caacaattct cacaaatcct aggaagagaa aaaataaatg tgcattctggg 240

cacatcacag tgaaacttca ggacatgaac aacaaagaga aatctgaaga ggggtacattt 300

accagaaggt aaaatatatg ttacatttaa agaacaacag aaagttgagt ttttcagaag 360

aaataataga aaccagaat cagatcttca gggtgctgag g 401

<210> 16221

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F3

<400> 16221

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ggccaccgcc atcggccagg ttcgacatca gtagtgaagc tgcacctgta cctgtacgta 120

cggaggaaga gcctttgccg gatctaataa tacactacta gcgcgttggt tggtttgcta 180

ttgctagatg caagcgtgtg cgtgcaccgt gcagtgcatt tgtggatggg cgtcaacacc 240

ttgcatgcac gcgctattct ttaattg 267

<210> 16222

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F4

<400> 16222

ggccgtgctg cccgccaaagg gcaggccttc ggcgaggagc aggggtggtgg cccgtgtccc 60

cgccacaagg aggagcgtac gtgtagctgc cgtcgacgcg accgaggccg cgcagatcga 120

ctacagctca agcgtctcgg tgttcccgat ggaggcctgc gacctgctag gtggctacgc 180
 gtgcaacgtg cccatgtttc cggaggccaa gcccgcttg gcaagctgcg acagctagca 240
 ggagtgtgga catagtggac agggactacc tg 272

<210> 16223
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F5

<400> 16223

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 gcctaggtgc gaccggcggg cagcagcagc acccagccgc tggcgggtgcg cgtgacgac 120
 gtgacgggcg cgtctcgggg catcggtctg gccatcgta cgcacctgtt ctgcctcggc 180
 tcgagcctgg tgctgggcta cgcggcgccg gccgactagg 220

<210> 16224
 <211> 292
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F6

<400> 16224

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 ccttgcatth tctcaaaagc tgtggggcgt gctccggaga cagtgttcca gccattgctc 120
 aaggataatc tggttgcaa agggatagta ctttcattca taactgagtt tttcaaggag 180
 tacctgaagg aaaacacctt ggatgatgtg attgcgcttt tgtaataaag gaaaaatgga 240
 ggacaatctg tgggactttt ttgcatcagc taatagatcc tctgaggcct ta 292

<210> 16225
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G1

<400> 16225

eggcttggtc ctctgatcgg cgtgtttgcc cctgcaaagc ccgcccagtc tccatTTTTg 60
 tttcccagcc cggatctccc tgctcgctt gctcctccgg cgccgcggat ttctgctcgc 120
 ttggccggcc atggtggctg ttcattgcta ctggcgggtg acggttcttg tcccggccac 180
 cgtcgcgccc agggaaatgg tgcgcattcc tgtgcccggt cttcttttcc gtcgcgctcg 240
 tctgtgctct gtccctggcgg tcttctctgc ctacgatctg tggcgct 287

<210> 16226
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G10

<400> 16226

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 ctgtgtggag ccgcgtcacc gtgggactgg gcggccatca cacagcctgg ggccagggtg 120
 ctgcacctgc acatggggac tgggttttga tcgtcagttc ccagggtttc tgtctgaaac 180
 agctgtttga aggtgactg tgcagatcgt tgctgacagc gcacttggat ggctttcagt 240
 tgatccatgg agccatgcgt ccaccctac gaccatttc agagcattta catcaccccc 300
 caaagaagcc cccatcagca gtaccctccc atcttctctg gcaccactaa cccactttct 360
 ctctctctgg attggtctga tctag 385

<210> 16227
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E11

<400> 16227

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 taatgcctct gatgctggat aagattaggt tcctttccct tactgataag gaagttcttg 120
 gtgaagggga cactgcaaag cttgagattc agattaagtt ggacaaagag aagaaaatcc 180
 tctccattcg ggataggggt attggtatga ccaaggaaga tcttattaag aaccttggaa 240
 cgattgctaa atctggcact tcaggaacag gagctgctcg agtctcttgt cgaagctgat 300

acgagaaggc aggaaagagc taaaaagatg gaagaaaaga aagtgtatct gcaactatac 360
gaagcaatgg aagcgttggt caagatcaat ctggagacca acaagatca 409

<210> 16228
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G3

<400> 16228

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atctagtaga gaggctagta tgtggtactc gaactaagat gttggctgag ttcagcgggc 120
gagtgggtga ggtgccggcg gagctggtgg cggcgtgcag ccggactccg tcttccaaga 180
cga 183

<210> 16229
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G4

<400> 16229

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ggcgagcagc accatggccc tctcctccac ggccttcgcc ggcaaggccg tgaacgtgcc 120
gtcgtcgtcc gccttcggcg agggccgcgt gacgatgcgc aagacggcgg cgaaggccaa 180
gccagcgggt gcgtccggga gccagggta cggcccgac cgcgtgctgt acctgggccc 240
actgtgcggc gagccaccga gctacctgac gggcgagttc ccgggcgact actgctggga 300
caccgcaggg ctgtcggctg acccgtggac gtgcggcaag aaccgggagc tggaggtgat 360
ccactcccgc tgggccatgc tgggcgcgc 389

<210> 16230
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B7

<400> 16230

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ccccgtgcag tcggacgtct ctaggtcgtc ggcgaggaag gcgcccttcg tcgtcagggc 180

cagctgcagc ccttcagcca agcaaggtgc cgacaggcag ctgtgggttcg cgtccaagca 240

gtacctctcc tacctcgatg gcacgtggc cgacgactat ggcttcgacc cgctggggcct 300

ctcggacccg gagggcaccg ggggcttcat cgagcccaag tggctggcct atggcgaggt 360

gatcaacggt cgctacgcca tg 382

<210> 16231

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B8

<400> 16231

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gcctaccctt catcatcgtc tctcctctcc tgctgctcct ctgcctgag cggccgggctg 120

aggccgcgcc gccgcgaatc cagccgctcg ccaccgtcgc gctgagccgt ctctacgaca 180

cctccaacta cggcaggctg cagctcaaca acggcctcgc gctcactccg cagatgggggt 240

ggaacagctg gaatttcttc gcctgcaaca ttacgatac ggtcatccgc gagacagctg 300

atgcgctggt gtccacggga ctgactgcgc tgggctacat cttcgtaa atcgatgatt 360

gctggtcata cgtgaaac 378

<210> 16232

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-C1

<400> 16232

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ggcgaggtga tggcgatgga ccctgacgcg gtagctaagg ccttcgtgga gcattactac 120

cgaacgttcg acaccaaccg cgcggcgctg gttgggctgt accaggagac ctccatgctc 180
accttctagg gccagaagtt ccagggcccc ttcgccattg cgggcaagct cggatctctc 240
cctttccagg cctgcgagca tcagatcgtc accgtagact gccagccatc gggccccag 300
ggaggcatgc tcgtcttcgt ctgcggtttc atacgcactc gccccgagga gcaccccatc 360
aagttcttcc aggcatt 376

<210> 16233
<211> 362
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-004-Q1-K1-C10
<400> 16233

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acgtgcatgg cgaggtttgc gctcgtggcg tgcgcaaagtc tcaccatgca cctactggtc 120
ggcgtgagcg cagaagacgt ggcgtgcacg atgacgcatg acctgtacaa ccagatgctc 180
gtcaatcgac acgacactca ctgaccggtc cacgggtgtct acacctacta cgcctatatg 240
caggccgcta acatcttccc ggtgtttggc accgggtaca gcacctgact aactttacaa 300
gcgcgagctt gtcgacttct tctgtcatac cttccactag actaccggtg gcacgacagg 360
tg 362

<210> 16234
<211> 348
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-004-Q1-K1-C11
<400> 16234

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gaagctgagg tacctggact tcgtccaggt ggcggctgcc caggccgcgg tgtgcctcgc 120
tggtctctac ggctctgcca aggaccacgc cggcccgtc cgtcccagcg ttgacaccgt 180
cgagtctgcc gtcaaggcg tcgttagccc cgtctacgac cgcttctgcg gcctgccgct 240
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348

<213> Zea mays

<400> 16235

tgatttatgc gtatgat 77

<213> Zea mays

<400>	16236
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gcaggcctaa tctcaaggcc gatggtgcga gcgctggttt gc 162

<213> Zea mays

<400>	16237
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gcacgcagct ggaccccagc acgcc 265

<210>	16238
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<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-C6

<400> 16238

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catgattggg aagctaattg 80

<210> 16239
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-C7

<400> 16239

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aacaaacgaa caatattatg aattaaagat taaagtgcgc tgtgaaggca atgaagtgta 120
caagggtttt ttggctgaat atgatttaga tcataactac gctgttgta acattgatgc 180
cttcattggg gttcatgtgg gaagttccca atgtgtgctg gaatctgtgc tccgtgggta 240
ggcatatgta gttgggcgta gtgtctatgg tgacctata attcagg 287

<210> 16240
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D10

<400> 16240

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ttctggaagg atgccttatt gctggagttg gaatgagggc atcagctgct tacatctaca 120
ttagagggtga atacgtgaat gagcgtctca accttgagaa agctcggcag gaagcgtatg 180
cagctggact tctgggtaag aatgcttgtg gctctgggta tgattttgat gtgcatattc 240
atcttggtgc tgggtgcgtac atctgtggtg aagagaccgc cctactagag agccttgaag 300
ggaagcaggg caaacctagg ctgaagccac ctttcccagc caatgctggg ctctactgct 360

gcctcacaac tgtgactaat gtataaactg tggctgtatc cccaaca

407

<210> 16241
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D2

<400> 16241

ggcctatatg aagcttggtc cgtaatcatc tcagatTTTT cttcttcttc tttgtttatt 60
cgaccatggt gcgcttccag acccgttgcc tcaactgtttt gcaaagagta gaagaaaagt 120
cattactcac atcagtgcag ctagcaacga aggccatgca ctgccacagg ggccgacaag 180
accatgtgat accttggtgcc agcttgttct gggtggaaca ccattgcttc gaagcctttc 240
tgtacgcctc aaggatTTTT tccatctggt tcatcatcaa gatcaatgtt gttactcaca 300
taagtgtgct aaggcatgat taacaacaca taacagacct gcgtaaaaac cataggaaac 360
aagatgccac gaacaaaagg aaaaa 385

<210> 16242
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D3

<400> 16242

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gccatggcgt tactctctcc ctctgcgcac ggcgctcgct tctcctggc tcccggccag 120
aatttcttgc ggcgcaagc ttgctccctg cgcccgctcc acatggcgct cggccgcccc 180
gctgtatctt gtccttgcg ctgggatttc ctctgctacc tggcgaactc gcccagccc 240
cagcttaaat gtcttctctg ccgtgcgcgc t 271

<210> 16243
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D8

<400> 16243

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ttgaagtgtg cccagatcct tcttgaagct ggtgctgcag tggacgctct tgacaagaac 120
aagaacacccc cggtgcatta cgctgctggc tacgggcgca aggagtgtgt ggatcttcta 180
tagaagcacg gtgctgctgt aactctccaa aacctggacg ggaagacacc tatcgatgtc 240
gacaagctga ataaccagga cga 263

<210> 16244

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-004-Q1-K1-E1

<400> 16244

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agagcgtggg cgctgcacgc ccccgctggc agcaaggaca ggctcctcgt cggcaacctg 120
cagggtgctgc cgctgaagcg ggcgctcgcg ccgctgtccg tcggcccgct cgccacgcgc 180
cggccgcggc acgtctgcc a gtccaataac gcagtggacg aagttgtggg ggcggacgag 240
aagaactggg acgggttggg gatggcgtgc gagacgccg tgctggtgga gttctgggcy 300
ccgtggtgcy ggccgtgcc gatgatcggg ccggtgatcg actagctggc caaggactac 360
gccggcaaga tcacgtgctg gaaggtgaac acggacgaca gtcccaacgt ggcgttcacc 420
ttcggcattc gcagcatccc caccgtgc 448

<210> 16245

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E10

<400> 16245

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ttattccagt ctaggtctac gatgactaca agctcatggt gtgatatact ctttacacct 120
accgattgat c 131

<210> 16246
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H9

<400> 16246

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aatacaaaaag tgccggagat caacttgcac gcaagagcat gtcaaatgaa gttagggaga 180
tgctggcagc actgcttgac aatatttatg gaaactggct ggaaacaata tcttctacac 240
atgggaagaa aaaagaagaa attgagggat ttattaattc aggggtgtac caggttgcca 300
gactcaagga agaaggttgg gtaacagatt tactgtatga tgatgaggta atgacattac 360
taaaggagag agtagggcag aaagacaaga aaagtctgcg tatggttgac tacagttaat 420
actcgcgtgt tatgtaaaag a 441

<210> 16247
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-A11

<400> 16247

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gactccctca tgaaaattct cactgagagg ggttactcct tcacaacctc agccgagcga 120
gaaattgtaa gggacatcaa ggagaagcta gcatatatag cccttgacta tgagcaagag 180
ttggaaaactg ccaagaacag ctcttcagtt gaaaagagct atgagctacc tgatggacaa 240
gtaatcacca ttggtgcaga gagattcagg tgccctgagg tcctctttca gccgtcgatg 300
attggtatgg aggctgctgg aatccatgag acaacattac aattcaatca 350

<210> 16248
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-A12

<400> 16248

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cacctgaaaa tttcacaac atgcatatat atatgaaaac cactaacatg agcttccttc 120
tccaccacaca cccctttctc acgcacttca cataccatct atagttggca ggacacgcca 180
cctctggggt cgtccctggg cccacatca gggccgttct ccgtcacata c 231

<210> 16249

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-A2

<400> 16249

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taaaggtttg gagagagaaa aacgtcataa agccagcacc aggaaagagg cgctgcaact 120
gtaggaacga agtttaccat cgacaaatag gtcctggaat gtatcaacag atgactgac 180
aggtctgtga ccaatgtcca aatgtgaaat tcgtacgaga aggtgaattc ttgactgttg 240
atattgagaa gggaatgaaa gatgcacagg aggttttgtt tttcgaggaa agagagccta 300
agattgatgg tgaacct 317

<210> 16250

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-A4

<400> 16250

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caacctgcag gtgctgccgt cgaagcgggc gctcgcccg ctgtccgtcg gccgcgtcg 120
cacgcgccgg ccgcggcacg tctgccagtc caagaacgca gtggacgaag ttgtgggtggc 180
ggacgagaag aactgggacg ggttggtgat ggctgagcag acgccggtgc tgggtggagtt 240
ctgggcaccg aggtgcgggc cgtgccgat gatcgggccg gagatcgacg agctggccaa 300

ggactacgcc ggcaagatca cgtactggaa ggtgaacact gacgacagcc ccaacgtggc 360
gttcacctac g 371

<210> 16251
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B1

<400> 16251

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tactgcattt tccgccctct agctctctaa gagatgtcac cttcaaaggg tgtaagaatc 120
tgatcctacc catggaggaa gaagctggat tctgtggcct cttgtcgctc gagtcagtga 180
ccatacgcaa atgtgacaag ttgttctctc ggtgggccat cagaggacga gcagctcaga 240
ctcagactca gagcatcacc aaccctctcc cccctgcct gaggaaactc tccctttatt 300
atatggaaac tctgcctcag aaagctctgc tcgcaaattt gacatctctt gaagaactca 360
cactacgtaa ttgtcttggc tgtgagcaaa gcaccgagcc gatggctctg cccgcgaatc 420
taacatctct taccattct 439

<210> 16252
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B10

<400> 16252

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cgtccttggc tccaagcccc cgcgtggagc tcgcccagct gtgaccctgc cgagctccgc 180
cccgaactca cgtctcttgg tcgggctctc gttctatgct tgatgccgct gttccctggc 240
gctccctgct cggctccctgc ccagcgctg actacagctc cagctcgcgg cgccccctct 300
gcttagccag gattgtcgtg cctctgctcc ctgatttctc cagcccgtgg agcttttctg 360
atgcgtccc tccctgctcc ggtcttctcc atagccgagc gcccgacgtt ctccct 416

<210> 16253
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-B11

 <400> 16253

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gagatctgat ccgatccgat ccgatccgtt tgtgcttggt ctgcagcagg agtgagaagt  120
aaaaaaatat ggctgccctg ccactggcca ccgccgaagt atgcgacgct aaccctcacc  180
tgatcatgaa cggcgagctc cgcgcgctcc agccaatctt ccagatctac ggacggcgcc  240
aggtcttcgc cggccccatc gtcacgctca aggtctacga ggacaacgtc ctgggtccgcg  300
agttcctcga ggagaaaggc cacggtaggg tcctcgtggt cgactgcggc tgcagcatgc  360
gctgggcat cc                                                              372
  
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<210> 16254
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-B2

 <400> 16254

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cccacgacac gactcgattc ccagacccat atccatccat caatccatcc gcagcgggca   60
ggcacacaca caggcttttg cgttggcagg gatggacgcg ttctactcga ccaccgactt  120
ctcctgcacg tcgtcagcgc cgtacggcgg ctacggcggc ggttgcaag gctggggcta  180
cgactcggtg aagaacttcc gccagatcag ccccgctggt ccagacccag cttaagctcg  240
tttaccttac cctatgcgtg gcgctggcct                                     270
  
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<210> 16255
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-B3

 <400> 16255

<223> Clone ID: LIB3060-003-Q1-K1-F9

<400> 16260

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ggagaagacc tcgtctggac gggagtacaa ggtcaaggat ctctcgcagg cggacttcgg 120
ccgcctcgag attgagctgg ccgaggtcga aatgcccgcc ctcatggcgt gccgcgccga 180
gttcggccccg tccaagccct tcgccggcgc taggatctcg gggctctctcc acatgaccat 240
ccagaccgcc gtcctcatcg agaccctcac cgcgctcggc gccgaggacc gctggtgctc 300
ctgcaacatc ttctccaegc aggaccacgc cgcgcgccgc atcgcgcgcg actcggccgc 360
cgtgttcgcc tggaaggggg agaccctcga ggagtactgg tggcgcaccg agcgtgnc 420
cgactgggg 429

<210> 16261

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-003-Q1-K1-G10

<400> 16261

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ggaatttttt tttcttgatg tcttttgaga tttattgttg tttttttta aaaaaagatc 120
attatatctt tctcaaatta ccaagtgttt gcatagaatt agggaaagac atgtagtcca 180
catgcatctg tctttttttc tggatgtctc tccttacact ctctgtattt tctccttctt 240
tgaagaaggg aaaaaattga aataatcttc tatcttggaa tggaaatgag ggaaagggtg 300
gacattgttg aattaaaact tacaaaggct ggcttagaac tccatttccc tttgattcgg 360
gccccgctat cttcccaggc cccatcacc tgcaccacc ctttctg 407

<210> 16262

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-G12

<400> 16262

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atggcgcggg aggctgaggc cgccacctgg gttcagaagc gccacatgta cgcgccggca 60
 ggtccaaaaga cgacgacgac gacggacgcc gacaggccgc cgtgggtggt gccgacgacc 120
 atcgggtttc cgtcgcccgc cttatgacgt ccgctgcacg tgtggggcca cccgacgtcg 180
 cacgcccggc tggtgaagc agcagcggcg actcccatgc tgctcgtgtg gccgcgtcac 240
 ctggcgccga cccggcacct ggcgccgagg gcgcactcga cgctgtgga cccggcgttc 300
 tggcaccagc agtac 315

<210> 16263
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-G2

<400> 16263

gccaaactttg catagtcaag gtaaaagaga attgcatga ggaaatggaa tcgccaacaa 60
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 caaatggatt caaccttttc cagaaggagc tggaaagact gaaagatgag aatctgtctc 180
 ctcttcttcc cctagacgtc aatctaactg acccatcact cagtggtttg gaaaggacat 240
 tgtcacaact cgatatggca aatgagcatt tgcaaagtat tttccatca tttaaagagc 300
 ttcttggttc tggcaatgct ttggaaagat tactcgctt ggaactcgag cttgcagagg 360
 ctctccaagc aaagaagaaa acaaacatcc tttccagaa gtcattcttg aagcaacaca 420
 atgatgaagc ggcatcttc caaagc 446

<210> 16264
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H1

<400> 16264

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 gtcattgaaa tgggaattgga aaccagtagc gttttgtatt tgcctgttga ttcttatatt 120
 tatttttagg aagtggggga atgtgtagca actaggaagc gagggaacaa catccagttg 180

atgtgaagca ttcattggcac agtaggcaat agtggcaaag ggggtactata catacacact 240
 tacggggacgc acaacataaa taaagaatgg ttgattaaat aactatttat tttggggaca 300
 cacccttagg atcaaccctt acttggttcg agtttgaata ctgatttga tcaacaagcc 360
 aataataatg cgctttgt 378

<210> 16265

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H10

<400> 16265

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 cgaaatgact agcgccgggg cggcgacagg cgccgcgcta ggcgcgcgga cggcgcggtc 120
 ctgcgacggc tgcattgaggc ggatggcgca gtggcactgc cccgccgacg acgccttctt 180
 gagccagacc tgcgacgtct ccgtgcactc ggccaacgcc tatcgcgcg cgacaccaca 240
 cgggtccgcy taccctctgc atctgtctc tgacaccgcy cgaccgggac gcgctaactg 300
 ggctccacgg cctcaagcga cggccacgca cgccactgac caagccaggg gggagcacga 360
 gcaacatgca tgaggcgac 379

<210> 16266

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H3

<400> 16266

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 ttctgcctta attccatccc ttccctgcct agaacttget ttgcttcacc ccatcacagc 120
 ttttgggtgcc tcgtcatcgg cgacctaacc gccggcgacc agataaacta agccaggccc 180
 ttcgctccga aagtcgtctc tcgtagagag cacttgctca cctgtcctc gccctcctct 240
 gctggcagtg gacttgcgcy gactggagat ccatccggac ctggttcgat ttcttcatct 300
 cggttgcttc tcttgccaat ggggtggatca ctggattgtg ggttggtgcta actgcatgct 360

ggcttgtcag cctattcata aggaaagtga aaaagagaca acatagccaa tttgtgtctc 420
attctt 426

<210> 16267
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H4

<400> 16267

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cgatggacaa gtacgagccc gttcgcgaga tcggagcggg caacttcggg gtggccaagc 120
tgatgaggaa caaggacacg agggagctgg tggccatgaa gttcatagag cgaggaaaca 180
ggatcgacga gaacgtgttc cgcgagatcg tgaaccaccg ctccctccgc caccccaaca 240
tcatccggtt caaggagggtg gtgctgactc ccacgcacct tgcgatcgtg atggagtacg 300
ctgcgggcgg ggagctgttc gagcgcacct gcgacgccgg gcgggtttcac gaggacgaag 360
cgcgctactt ttttcagcag ctg 383

<210> 16268
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H5

<400> 16268

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ggcagcctta aggccatccc ttccctgcct agaacttgct ttgcttcacc ctatcacagc 120
ttttggtgcc tcgtcatcgg ctacctaacc gccagcgacc agataaacta agccaggccc 180
atttctccga aagtcgtctc tcgtagagag cacttgctca cctgcttctt 230

<210> 16269
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H7

<400> 16269

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gctttagctt taccatca cagct 85

<210> 16270

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-F6

<400> 16270

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tgccggctgc caccgtcgac gtcttaacag cctaggacta tacgaggggt gcagtcgctg 120
cacatgagct cagagaatctt gggctctcct gatgtcatct ttcacagct ggacattatc 180
gacgcttgta gcgtcatgcg tcttggttg agatcctcaa ggcttcgttt tggaatgcct 240
atatatcctg ttaaataatg 260

<210> 16271

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D7

<400> 16271

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gaccggctga tcgaggtgaa ggtcacggcg gacaacagca gctgcatccg ctccatctcc 180
ttcatctaca tcggagccga tggcaaaccg tacgaggagg ggccatgggg ttccggccat 240
gctggcacgg agtacaagat tgatctgtgc aggttcgacg agagcttgac ggagatctcc 300
gggaccacgg gccagccta caacattgac aatctggtca agtctctcaa attcgtcacc 360
aacaacgcg cttacggacc gtacggcagg gacgagggca ccccggtccg tgtcaagggtg 420
atgaacaacg gccacg 436

<210> 16272
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E1

<400> 16272

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gaccggctga tcgatgtgaa tgtcactgcg gacaacaaca gctgcaatcc gctccataat 180
cttcatctac atctgaccta atggcaaacc gtacgaggag gggccatggt gtttctgcca 240
tgctggcacg gagtacaaga ttgatctgag caggttctac taagagcttt acggagaatc 300
ttgggatcca cgtgcccaac ctacaacatt 330

<210> 16273
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-003-Q1-K1-E10

<400> 16273

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acgacgaacg ctggcgctcc tgtgtggaac gacaacgagg cgctgactgt ggggcctcgc 180
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cgcatcccgg agcgcgtggt gcacgcgcgc ggggcctncc tcaagggtt cttcgagtgc 300
acccacgacg tgacgtcgct gacgtgcgcc gacttctcgc gcgcgcccgg cgtgcggacg 360
cccgatgatc tgcgtttctc gacggtgatc cagagncgg ggtccccgga gacgatccgc 420
gacccgcgc 429

<210> 16274
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E2

<400> 16274

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tgccatcgcc ctgcttgccg gctgtgccat ggcccatgag gtgctgctgg gcgcatgcta 180
cggcggtctc gtcttctagc ccatccagtt caccttcaag gccggcgaca ccatcatatt 240
caagaacaac gccggctttc cgcacaacgt ctacttcgac ta 282

<210> 16275

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E3

<400> 16275

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gtctcgccat cgcagaaggc agaagcacta gttcctgata gccacaaaac caaccaaagg 120
caccaaaggc caagctaccg tgagggtgagg gaaagggaaa gatcagatat cgcctattcg 180
cctacctctg tgtgcatcag aagatgatcc ccttcataaa gatgaaacat tcccattccc 240
tccactagaa gtcgccgggag gacgcagcaa gtcaccgaa gccagcaacc gatggatcag 300
aggcgcgta cggcgaggtt cggcagcaag acgagctcgg agcggaggat gctgcggcga 360
gtgaggctcc ccttctgggtc ctgccctcca aaccggcctt caggcacctg aacgcctcga 420
atcctcgata gaacagctgg tc 442

<210> 16276

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E4

<400> 16276

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tcatacttac cggggctttt ttcatttttt tatgtaaaat aaatatcccc gaacaacttt 120

attacatgca ttattacaaa gggcctacct accagtttat taacgtatcc aatagaacct 180
 ttttgcctca ttccgttaat ttattcaact tatgacattc atgcaaaaaa cacctttaga 240
 caaaaaaacc ccgttttat 259

<210> 16277

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E7

<400> 16277

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 aagagtgttg taccagtgca gactcggctc tctggaaatt gatagtgacg aagatgacgt 180
 ggaggaagaa gaggatgaag atcaacctga aggatccagc tctcttcaga ggactcaaga 240
 tgccaagac ttgaagaagg tgccatgatt ctgctgacaa caatctgaca tgcttttttg 300
 catgtgcctt ttgttcaagt ttatgctgag acattgcac aagtgatgca ccattgctcc 360
 gagtgattgc aagtctaatt ttttgcagat tttttggttg agggttgcat tcactttggt 420
 tcagccatct tttgtggaca ga 442

<210> 16278

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E8

<400> 16278

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 ggatgccgaa tacaaggagt ggaagcatgt cgtgcaagag atcgcgaggt tcctgcgagc 180
 tgactacca tttatgaaca tgaggccgct caggtagac tatgcattcg atccgcccc 240
 ggacacgctt cgtactgtgc caactactgt caagaagcga ggtctcgtct taagtgcac 300
 catactttgc agctactatc ctaacgaggt caaatttaca gacctctcca tagatgtatt 360

cagaatggtt cagtgcctcg aatgggaacc atgtgggtca tttgcgctaa acgatgttta 420
cagcgcccat g 431

<210> 16279
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-003-Q1-K1-F1
<400> 16279

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acggcgctccg cgacggcggc gaccgcttc acgctcctag cgggcgccgg cctccgcagc 180
cgcatcagcc gcctccccac cgacgtgcgg ttccagcgcc agcgggggct caccaccacc 240
gcgctcctga agaccgacga ccttcagccc aaggagcagg gcaagcccga gacgctcgac 300
taccgctgtg tctcgtcga cgcccggggc cggaaggtgt cgccgtggca cgacgttccg 360
ctgcgcgccc gggacggagt gttccactca gtcgtctaga taccc 405

<210> 16280
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-003-Q1-K1-F10
<400> 16280

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gctctcacct cccgcgcgct cggcggcaag ccggcgacca gcaccaggga cgtttacggc 120
gaggggcgca tcaccatgcg caagactgct ggcaagccca agccagcggc gtccggcaga 180
ccctggtacg gggccgaccg cgtactgtac ctgggcccgg ctgtctgcca gacatcaagc 240
tacctgaccg gcgaggaccc acgagactac gggttggaca ccgcagggct gtgcgccgac 300
ccggagactt tcgtcaagaa ccgcgagctg gaagtgatcc actgacgatg ggccatgctg 360
ggcgcgctcg gatgcgtggt cccggagctg ctgcgccgca acggcgtcaa gtcc 414

<210> 16281

<211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-F12

 <400> 16281

 tccccgtcccc ttccacggga ctctagacaa tggttggcga tgcccaacga ctgcactgt 60
 ataaatgcat acgcctcaga tccgccatgg cgcgccacg ccaccagccg accattcggc 120
 tgccgaacga gcgctcgaca ggcgactacg ccgtactgac ccagaggacc gtgctcatca 180
 gcggcttcaa cggctactac aactaccggc accaggcgga catatggcat gcataccaga 240
 tcatgaagaa gggcggac 258

<210> 16282
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-F3

 <400> 16282

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 gaggaagcgg cgctcctcct ccgcaggatc aaagggcttg tgcgctggat cgtcgaagag 120
 gttgccgccc gccgctcccc gtctatagtg ctccaccgtg cctgcagcta cgacatcccc 180
 gtcggcacgg acgtcctctc tctgctccac aaggactacc acacctcccg cctcaatgtg 240
 ctctgaggg tgctggctgt ggtgcagcag cttct 275

<210> 16283
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-F4

 <400> 16283

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 gccgtgtcac cggctgcaac aaagggatcg ggctagaggt gtgccggcag ctggccggcg 120
 ccggcgccac cgtcgtcgtc ttaacagcca gggacgagac gaggggtgca gccgctgcac 180

aagagctcag agaatctggg ctctccgatg tcattctcca tcagctggac attaacgaac 240
gctgcgagcg tcagtcggct ggctgagttc ctcaaggctc gttttggaaa gctagatatc 300
ctggtaaata atgccgcagt tgggtctgtt gagtacgtcc aagatcctgc tgacagttca 360
acgagcgagg aagagctgag tggcatggat atgggtccaaa ggcttcagtg catgcttaag 420
agagtcgggg agacctacga cgctgcgaca gaagg 455

<210> 16284
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D6

<400> 16284

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atcatgtcat acaacttta gttaaaccct ctgcgtagct atttttagtgt atgaatcatc 120
taccttggtc atacatcttt agtgaataga gtgtatctgt tgcccttctc gatagatgaa 180
tcaacaagaa gccctacg gagttggaga gtttctacga gattttggtg ttccagtgg 240
cctgtggcga ctacttcaag aagtcggata taccgaagca cccaagtacc agtggccacg 300
cacggttctt agaggacaac catggtatga ggtagtagtg catattccag aacgtgctag 360
aaaccatctt ggccacattg gatgttccat gctgaaggaa tgactccttg g 411

<210> 16285
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B9

<400> 16285

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ttcagaattt cttgaacgca tcagttcctg tttctgtgca agcaaccttc cttataaat 120
tcgttgtag caagtctctg cagcctggag cttatgatct ggttggttac atagtgtatg 180
agatcgacca gcacccttac cagaatgtat tctacaatgg cactattgag gtcgttgagg 240
ctggaggctt actcagtgtt gagtctgtgt tctcatcac ccttggaaac gctcttcttg 300

gtctcttttg attatgggca tatggccagg ttcagcagct ctccaagaaa acgaagaagg 360
 cccccaaggt ggagctcgga actggaacaa ctgatgccaa catcgatgag tggctggagg 420
 gcacttcggt tgtg 434

<210> 16286
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-C1

<400> 16286

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 cagccttcga tgcactacaa ctggtaagct acacggatga gtacttccat tgtgaaactt 120
 gcaatggtga actggttgca gagagtgaac agcttgcttc tgaggaaatg ggagatggcg 180
 atgacaatgt tagaaagcgc aggcgtgaga aattaaagga catgcagcaa agaatagaag 240
 agcaattgaa gccattgggt gcacaacttg atagagtga gaatattcct gcaccagagt 300
 ttgggagtct acaaacatgg gaaagagcaa atattggtgc ttttgcaatt ggtgaccctg 360
 ctgcagctga ttcttctagg aattcacaag ggcagtatgg tacaccaatg ccatacattg 420
 gagagacaa 429

<210> 16287
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-C10

<400> 16287

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 catgctgaca ccgtccgtaa gaacggcttc atcgtcatta agaacctgcc ctgcaaggat 180
 gtggagggtt ctacctctaa gactggtaag catggacttg cgacatgcta ctttggcgcc 240
 atatacatat tgaacggcaa aaagctggaa gatattgaat cttcatcaca caactgagat 300
 attcctcatg tgaaccgtac tgagtactag ctgattgata tatcatagga tggatttgtg 360

agcctactta ctgcacatgg caacactaaa ggatgatctt agacttctaa ctgattagac 420

<210> 16288

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-C2

<400> 16288

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tgaacatcga gggcaacggg tgcggggcggg cgctgccgcc gcagccgacc gtgaaggtgt 120

actgccgcgc caacccccaac tacgccatga gcgtccgcga cgggaaggtg gtgctggcgc 180

cggcgaaccc caaggacgag taccagcact ggatcaagga catgcgggtg agcacgagca 240

tcaaggacga ggaaagttac cgggcgttcg cgctggtgaa caaggcgacc ggggaggcca 300

tcaagcactt gctggggcag tcccaccggg tgcgcctggt gccctacaac ccggactttt 360

tggacgagtc ggtgctgtgg acggagagcc gcgacgt 397

<210> 16289

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-C4

<400> 16289

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ggtttttgta gacagaagtt gtacttcccta gtgctcatct gcacaaatag aaatgattgg 120

atcacgtgtc gtttagaaaa gatggaataa tactgaaaca caccagactg aatcatctat 180

gtgttgcatg acgtggactg tgtcgttctt attattacgc actagcatag ctgaactaat 240

tctcttgacc tcgagttgcc tgggtgcctc ttcaaccttc atgttcagaa tagcatttgt 300

tgtgggatat catctcttat cttggtatat gtcttcagtt tcagtctgct ctcttgagac 360

agacaaacag ctcagagtcc tatgttggtt ggttaaattg ctgcaggatt tagtggtggg 420

gtatatggga gt 432

<210> 16290

gtgttgcatg acgtggactg tgtcgttctt attattacgc actagcatag ctgaactaat 240

<211>	435
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-C5

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cgcacctcac	ccagcgcccg	gtccgtgccg	ccacgctcgc	ctccgctacc	cgaccccgcc	120
tagaggccgg	ggccctcgac	gggcgctgcc	atgcgcaagc	ggagtgggac	taggacgacg	180
cccactacat	gcggcgggtgc	gtggagctgg	cgcgcaaggc	agacggccac	accagcccca	240
accttatgga	gggctgcgtc	atcgtcgag	acggccgcgt	cttcgagaa	ggattccacc	300
gcaaggcctg	acaacctcat	gccgaggtat	ttgcactaag	agatgcatgt	aatctagctg	360
aaaatgctac	ggcctatgtt	agcttggagc	cctgcaacca	ctacgggaga	acccatccgg	420
tactgaagcg	ctcat					435

<223> Clone ID: LIB3060-003-Q1-K1-C6

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acttagcggg	gatccgagaa	ctttcatggc	ctgagttgat	catgttgcaa	agcttacggg	120
gctgcatgat	tcctataccg	ctcattatac	agagactgat	ccaagcaatg	gcgatcaatg	180
aagctgatat	tgccgtgaca	cacacatgtg	tctaagtgtg	gacaaaaatg	atgaatgctt	240
gtaggcagat	cattatagat	cctacgctat	gaactgacgc	attatgcgct	aagccgtgta	300
taggcgtatc						310

<223> Clone ID: LIB3060-003-Q1-K1-C8

<400> 16292

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tcttgaatat gctatggaag gctcattctc tgtcaagtct gacacctata gctttggtgt 120

tctactactg gagattgtaa gcggcttaaa gattggctca ccccatctga taatggacta 180

tccaaatctc attgcttatg catggagctt atgggaaggt tgaaatgcat gggaataggt 240

ggactcgtcg gttctggtga gttgtccact tcaggaagct gtacgatgca tccacttggg 300

tcttatatgt gtccaagaca gtccaaatgc gaggccgctc atgtcatcca ttgtgttcat 360

gctagaaaat gaaacagccc cggttcctac cccaaaaaga cctgtatatt ttac 414

<210> 16293

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D1

<400> 16293

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ctgggtctat gaagatgggc agtcagcatc ttgtgtggct ttcgtcctta tgatgtacaa 120

ggaggctgga ctctttgacc ctattaccag ctctattgaa gttactgaat tcacaataaa 180

agatgcttat atcctcaact cttttgagga caactcgacc cgacttccgg agtggggcaa 240

caaggatgac gatgtgaaac tttccttttg ccagatcaag gggcagtacc cgatggagct 300

gtctgtatac aacaccctga aaccctatgc gcacatgaac gcgagatgtg catacctgtc 360

tcc 363

<210> 16294

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-003-Q1-K1-D10

<400> 16294

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gggaccacct ccccgctctt ctccctctcc tcctctcgcg cctccctccc ttccccacc 120

cgatttcaca cgtctctctc gctccgagcc ctctccccac gtgctcgtct ctctgccgcc 180
ctccctttcg cctccccact cgttttcaggc gggtagcgga cctgngcggc gacttcaatc 240
tcgtccgcgg gaaggttgag acggcggggg ctggaggtgg tgtgcgaggc cacgaccggg 300
cggcggccgg actcgggttaa gaagagggag cgccagaacg acaagcaccg catccgcaat 360
cacgcgcgca aggccgagat gcgcactang atgnaaaaag tcttaagagc tcttgaaaag 420
c 421

<210> 16295
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D2

<400> 16295

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cccgaggagt cgaactgcct tctagagccc tctcctgttt tcaggcgaat gtgcaggtag 120
cttgacgtct gatgaacgct cagccatgct gctgatgcta cacgaaactc ttcctttcgt 180
gaggccgacg agttcttgcc gggacccaaa actctccgag aagagtgcct ctgctttcca 240
cggtaaattg ggatgcagtg cggctctgaa ttcaacggaa gggcatcgtg tacagaaacc 300
acacattggt cacagctaca aagttagctt cactaggacc agccatcatc tgtgtaaaag 360
cttaaacgag agaactacaa ggcaactgcct gcacgggttc catgttaatg ctctcg 415

<210> 16296
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D4

<400> 16296

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tacgccactg ataatgggtc cgttacatat tcgtgtccgt caggaacaga ttaccagatc 120
atcttctgtc cccccgtcga tcttgtgtca ttgtctccac ctccaacttc accattgtct 180
ccgcctccaa cttcacctac tgcaacaaat ggaacaagca gcatcacatc ctcatcaaaa 240

tccaagaggc caagaatatt tggttatggt ctaggtgggt caataggtgg cttcactttg 300
atcgcatcct tgggtcttttt cttcgtcctg catagacgac gattgcatcg acgccaagag 360
atgcaagaag aggaagaagc agagtttgtg aggctaccaa ggatgcccag acggttcaca 420
tttgagcagc tacaggaagc aact 444

<210> 16297
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-H9

<400> 16297

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gcttttggac ggggtacccaa gaagctattc acaggccatg gccttggaag ctcttgaaat 120
ccggcctgat actttcattc tgtagatgt tccagatgaa ctcttggttg aaagggtggt 180
tggaaggcgg cttgatcctg taacagggaa aatatatcat ttgaagtatt ctccgccaga 240
gaatgaagaa atcgcttcaa ggcttacaca aagatttgac gatacagaag aaaagggttaa 300
gttgaagctg gagacttatt accaaaatat cgagtccttg ctatcaacat atgagaacat 360
tattgttaaa gtgcaaggag atgccacagt ggatgctgtc tttgctaaga tcgacgagct 420
gctgggttct 430

<210> 16298
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A1

<400> 16298

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gctccgccgc cgccgtcccc gccgcgggcc gcatcgcggt ccggcgcccg tggaacacgc 120
cacagccgga agcgctgcgc ctgcgcctac gcctgcgcgc gcggggcggt cggcatgagg 180
acggcggttg cgtgcgcacg gtggagcatg agcagacagt accgcggacg ttctacgacc 240
tgctcgggat c 251

<210> 16299
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A10

<400> 16299

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gtcaggatgt gaacattatg aataaaaatg atgttgatt gatgagatgg tgaaattaga 180
ccagatgcaa acagagtcta ttaatatatta atctggcggt aaaaattgaa agtaaggact 240
cactttagta agctatttct gcaaaagtat ctaagttgat tcttgctaaa gcctctcctt 300
gattcccaaa tccagcatat ccttgagagt cttttcttta gtcgggtaag tcttgctgag 360
taattccata ctccagggtt tattccctgt tgttttccag gatataactt tgtgctgctg 420
tgatggtggt aaatg 435

<210> 16300
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A3

<400> 16300

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tataggcgtg gaaaacttag gaggagcttt ctgcctcgat ccccatgtgc ctgggagcat 120
tgccaaaaga aattacttac cactggatc cgtacagtct gagagcctag attggcctaa 180
atattttccc aaaggaacat aaagattt 208

<210> 16301
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A4

<400> 16301

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 ctgctgctcc cgctctacg gctgcgccga ggccggcgcg ccgcctccgc gtgcgcggtg 180
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 cgcgccaagg cggcgtata cagctcgcg gacgcagcgg tagccgcggc ggacgcccag 300
 gcgggcgcgg tagacgacgc cagccaagct gcttcggaag cccagaagaa cagcagttgg 360
 gtcggc 366

<210> 16302
 <211> 228
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-003-Q1-K1-A5

<400> 16302

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 actggcccag atcgagaggt acagcacgaa aaagagaagc aagagagata ggggaccgga 120
 gggcggcggg ccggggccca agaccgaggg gctcgtgcgc aagaagctga tgaggctcct 180
 gtcgctcgtc cccttcggct gccgtgctgg acccatcgac gacgcgcc 228

<210> 16303
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A6

<400> 16303

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 gcgcagctgc gtctcgcggg gcctctccag ggccaaggcc tccgcctcca ggctcctctc 120
 cacggcgctc tcgtctaca cggtggtcga ccacacctac gacgcagtgg tgggtgggggc 180
 cggcggcgcg gggctccggg cggcgatcgg cctctccgag cacggcttca acaccgcgtg 240
 catcaccaag ctcttcccca cgcgctcgca caccgtcgcg gctcagggag gcataaatgc 300

tgcacttgga aacatgagtg aagatgactg gaggtggcat atgtatgaca ctgttaaggg 360
 aagcgattgg ctgggtgacc aggattctat tcagtatatg tgcagagagg caccaaaagc 420
 tggttataga 429

<210> 16304
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A9

<400> 16304

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 ggcccggc caagtgaag cggcggaagg cggacgactt cgaggccgcg ttccgggagt 180
 tegacgagga ctccgcctcc gccgcccggg ccccgcag ccgcaagcg gcccgccgcg 240
 ccgacgccgt catcgacctc gaggaacaag agcagcgccc ggccgcccgc gccctgaagc 300
 acgaggccgc cgagtgtcc ggatccgacg cgctcccga cttctcgtgg cagggcgtgt 360
 cggcgcccta cgacgagccc ccgcccgc gcccgccctt cgact 405

<210> 16305
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B1

<400> 16305

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 gccacctcc catggccacc gtcgactgcc ccctgcctc tcccgcggac ctcgacgaca 120
 acggattccc ggctctacc ttcttccccg ctgcctgtag cagcggttc tcggaggatt 180
 tctaccgcag cggcacctac tggtccttct tacgcgcccc t 221

<210> 16306
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B10

<400> 16306

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aattggagat gttgaaaaat cagtttccct tcttaaacag aaataaatat tgtaaataa 120
gggaaatgta atagaacacc cttttcgcca cgggtaaaaa tgacagaaat gtatggtttg 180
ttttaccttc atttctgtta caattaaaac ttgttagtct aaacttttac tttttcccaa 240
cttaacccta actctttttt tttattttcc tttatggact gcattcttaa tttctaactg 300
gtaaacactt gattggagac tttttttaa 330

<210> 16307

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B11

<400> 16307

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tttccctttc agctggagga gatagatgag agagaggatc agaggaagca ggaaggagag 180
agggatatat aggccggtgt cttctgtaga gagagagatt gagagcaaaa gggaaataaa 240
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ctcttacatc accccttctt caccttcttc ttgttcttgc tcatccctcc tctccggccc 360
tctcttctc ctgectctct ctagctagga cgatcttcac aaacccttc ccctctaatt 420
ctc 423

<210> 16308

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-003-Q1-K1-B2

<400> 16308

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tccctaacgg cccctccgag ctgcccgtca aggaggccgc gtggggggctc gcacgctacg 120
 ccgccatctc acaggacaac gggcttgtgc cgatcgtgga gccggagatc ctgctggacg 180
 gcgagcacgg catcgagcgc acgttcgagg tggcgcagaa ggtgtggggc gaaaccttct 240
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 cgcccggcgc ggaggccaaa gacaaggcca ccccgagca tgtggccgcg tacaccctca 360
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 aatcggaggt ggaggcgacg c 441

<210> 16309
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B4

<400> 16309

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 tagaccctct aggagtcgaa tagccaccag ctaggagagc gtgcaaata ggccgacgac 180
 ggcatgttca ctgatgcatg cggcgacgca aactgttagc ctgatcagcc agctcatgat 240
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<210> 16310
 <211> 129
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B7

<400> 16310

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 ccctcccgcg tcggccccgc gcatgggcta ccccggaac caggccccga acgggaaccg 120
 cagcgcta 129

<210> 16311
 <211> 430

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F9

<400> 16311

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gtccagcgtg gccccgtcga catcgaacgc atcgacctcc gcaggggtgc gctagctggc 120
tgctacggcg agcagtcgc acgcggacac actccttcct cttcaacga cgatttgggt 180
gcctcgctcg actcggtcgc caacagctcc gtccatggcg gccacggatc cgtgctgccc 240
cacctcacgc ccattctgcgc gggcactagc aggatccctg tgcccgcga cggagggtg 300
gactgcgccg aggatttcga caccaatcac ttggacaagg ggttcgagtc ggatcccgtc 360
cctcttcccg tcgtctacga ccgctacgac gagccgaacc acaacgagat cgttgagggtg 420
ctcgcgctac 430

<210> 16312
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-G1

<400> 16312

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gccgatcctt caatggccga ggcgactaag aaggcctgcg atttctgggg tgttccatgc 120
accgatgttc ttcggcctac tgtcgaagcc attgcctctc acatcgggtg tgctccatct 180
ggaattccac gaagctctcc gagtcgaaat ggtcggctat cagaggatta cttccaacgg 240
atcgatgcta tcgatttcac catcaaaca gacgacgggtg ctctgccaca gaacctctac 300
cgcgagaca tcgtgcttg 319

<210> 16313
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-G3

<400> 16313

caccggccac tccagcaagg cggcgggcg tccgagttct ccggggtcac gagctccccg 60
 tcgctgcca tgcgccgaa tgccacctcc gacgacttga tgtccggcgt cttcttcagg 120
 acccacgcgg ccggacgaac ggccggaccgc ggccggcgcc gacggaggcg aagctgaagg 180
 tggccatcaa tgggttcggc cgcacgggc gcaacttct gcggtgctgg c 231

<210> 16314
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-002-Q1-K2-G6

<400> 16314

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 cgccgccccg cggccacaag cgcaagcagt gaacacggcg cctcctcgt cgcgcgcca 120
 cgcccccgtc gtcgtcttct cccggcaggt actacagcg ataaatacgc agcaccgccg 180
 cccggctcgg ttcccgctg gccaccatc cgatcccacc cggcagcggc gctgcgcaat 240
 ggccaccac gcagctctcg ccgctcccg catccccgc ggcccccggc tgcacagcag 300
 ggccgcccgc tcgtccaggc acggcgtgca gaggtggac ttcgccgact tctccgggct 360
 caggccgggg tcgtgctccg tgagcgctgc cgcgcccggag gcgtnccttt tccgacgtcc 420
 ttggcgcgca gctcgtc 437

<210> 16315
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-002-Q1-K2-G7

<400> 16315

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 cttctccttg gttgcgttg ccctccctcc tgtctgcgtg cgtgcaatcg acgcagaggc 120
 gggggcgctc gcaccaccac gaccacgacc cgatggcttt catgcgctcc cgctcaaata 180
 catcttcttg catgggagtt gctcctaaca ttagggagac attcgtcgag cttcaaata 240

agaaggcatt ccgatatgtt atcttcaaaa tcgaagagaa gcaaaagcag gtggttgtgg 300
 agaagacagg ggctactact gaaagctatg atgactntnt ggcctctctc ccaaagatgg 360
 actgccgata tgcgctggat tgatttgaat ttggtactgg gg 402

<210> 16316
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-G8

<400> 16316

aaacaaccgg agcttttacc ccaccgctt tcccctcccc gccaggaaca acagggcgcc 60
 tcgcaataat tcgtccatcc atggcgaagc tcgtcaacaa gctggtcgat tcgttcgacc 120
 accacgaggc gccggcgccg gacgtcggct gcgtgcgcgc cgtgctggcc gagctcgtcc 180
 tcaccttctt cttcgtcttc accggcgtct ccgcctccat ggccgccggg gccggcgggga 240
 agccccggga ggctatgccg atggcgacgc tggcgggcgt ggctatcgcg cacgcgctgg 300
 ccgctggcgt cctggtgacg gccggcttcc acgtctccgg cggccacctc aacccccgcg 360
 tgacggtggt gatcttggtt cgcgccaca tcaccaagct ccgggcgctg ctgtacgtcg 420

<210> 16317
 <211> 180
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-H1

<400> 16317

agcagcagag gcagcgacac gatcgcgagc gcacgcacgt aagcacgttg tcggaagctc 60
 aagttagaag aagcaccagt gcctgatcga tggcggccca ggctctctc tccggccggc 120
 agctgctggg ccgccccgtg cagtcggccg tctctaggtc gtcggcgagg aaagcgccct 180

<210> 16318
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-002-Q1-K2-H10

<400> 16318

gcgagctgaa gcatccaggc tctggaatca tcgtcgggat gtctgtgcca gcatcagcgc 60
aggtgcctca caccatacga tctgctggga gctgctgctt caggctcgtcg catcaactat 120
ctgcgcagaa tctggggcga catcgcaggt ggcgggggac cggaagaag aagatccttt 180
ccaccctggt cgtgcttgag tccaggaacg gtgcgcatcc tgggtggcctt acgaagagaa 240
agaaggctgt ggagcacatc atcctgctca gagccaagcc caacatctca gacgctgaag 300
agaaagacat gctggactac ctatacacat cgcagtacca gatgcgaggg atacttgctg 360
tctcgctagg ccgcctcgag gaccccaaca gcgacaactt cagcgacgct gngttcatgc 420
gtttccag 428

<210> 16319

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-H11

<400> 16319

ggctccctcc tctccctgc aaatcctgca gacaccaccg ctcgtttttc tctccgggac 60
aggagaaaag gggagagaga ggtgaggcgc ggtgtccgcc cgatctgctc tgccccgacg 120
cagctgttac gacctcctca gtctcagtca ggagcaagat gggtgccggc ggcaggatga 180
ccgagaagga gcgggagaag caggagcagc tcgcccagac taccggtggc gccgcgatgc 240
agcggctgcc ggtggagaag cctccgttca ctctgggtca gatcaagaag gccatcccgc 300
cacactgctt cgagcgctcg gtgctcaagt ccttctcgta cgtgggtccac gaccttgtga 360
tcgcgcgggc gtcctctac ttgcgctgg ccatcatacc ggcgctcca agccc 415

<210> 16320

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-H12

<400> 16320

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 gatataaagg gagagagagg ttatgcgcgc tgtccgtccg atctgctctg tcccgaactca 120
 gctgggtacga cctcctcagt ctcaaactg agcaagatgc gtgccgacaa catgatgacc 180
 gacaaagaac ggcagaagca tgagcacctc gcccgagcta ccggtggctc cactgatgcag 240
 cggtcgcgcg tggagaagcc tccgctcact ctgggtcaga tcaagaaggc cattccgaca 300
 cactgcttcc agcgctaggt gctcaaactc ttctcgtacc tggtagacga cctgatgatc 360
 gtcg 364

<210> 16321
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-H2

<400> 16321

cccacgcgtc cgcggacgcg tgggcgaaaa ttgaggggca tcagcacacc tgagatggac 60
 tgggcttggg cagctaaccg gttaattgac aaggatgagg cagaaactcc agacgatgct 120
 cctttaaatt atttgccgcg gaagaggcta attttgacaa gccagttgat ccagcaactt 180
 ctccctgcta taccagcgac cattctgaga gcacaagctg tgtctgctta cggaagtgcg 240
 acatacactc tatcaatggt gacactaagg gatgcatgca gcatggcatc atcatcatca 300
 tcatcatcat ataactcttg ctacactgtg gaggatgaaa ataaccatc tgaacaaccg 360
 agtgctaaga aaatggaaga cagagtgtc 389

<210> 16322
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F8

<400> 16322

cggcatcatg tttctcgccg gttccgtcat caacgccggg gccgtcaacg ttgccatgct 60
 catcgtcggc cggatcctgc tcggcttcg tgtgggggtc acagcgcagg cggctccgct 120
 gtatctggcc gagatatcac ccaccagatg gcgcggcgcc ttcaccacgg cctaccattt 180

cttcctcgtc gccggcacgc tcgccgcaa cgtcgccaac tacgtcacga accggattcc 240
cgactggggc tggcgctct ccctcggcct cgccgccgtg ccgtccgcgc tcacgtcat 300
ggcgcgctc ctctctcgg acacgcccag cagcctcgtg ctgcgcggcg agccgtacgc 360
agcccgcgcg tcgtgcagc gcgtccgcgg ggcgggcgcc gacgtggagg ccgagctcaa 420
ggacatca 428

<210> 16323
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E11

<400> 16323

cacgttcctt cggtaaatta tgcactaaat actgtacctg atccttttat gggaaaagg 60
ggtcattaac cacattcaaa ttctactcca cctgatcgag aaacattcat acgacctcaa 120
tatgagctct agcacttact ccagcctagc tcgcctattg attctgatca cgctaccac 180
tctcgataac atccctgata cgctcctcaa ccctatagct ctaataactca actcggcatc 240
ttcgagtaca ttggagactc caatgtcaat gacactcaac atactaatct agccatccac 300
gatatgccca gctttgacct ttatcgcgca ctgacacttg gccaac 346

<210> 16324
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E12

<400> 16324

cccacgcgtc cggggaattc tcaggcaaac gcaatatatg aggcttttat accagagggc 60
tgccagaagc cacattcaga ttctaccag gaagagcgag aaaaattcat caggtctaaa 120
tatgagctgc aggaatttct gaagccaagc ttgcgcattg tttctcatca gcctagtgc 180
tctggaaaac atgccggaaa tgcttctcat tctgatgggt ccaagagtca agtcggcatg 240
atcgagttca ttggaatatt gaatgtcaag gtgattggag gcaccaacct agccatcagg 300
gatatgtcaa gcagtgacct ttatggcgct ctgacacttg ggcaacagaa a 351

<210> 16325
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E4

<400> 16325

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acgacaagca tatatggggg agatcaccaa tgcatggag taccaggcca tcggaagca 120
gaagcttccg aagatggcct acgactacta cgcgtccggc gccgaggacg agtggacgct 180
gcaggagaac agggaggcct tctccaggat cttgttccgt ccgcgcatat tgatcgacgt 240
gtccaagatc gacatgacca ccaccgtgct ggggttcaag atctccatgc ccatcatggt 300
cgccccact gctatgcaga agatgggtca ccagatggg gagaacgcca ctgcgcgcg 360
ggcggctgcg gcaggcacca taatgacact gtcgtcctgg gcaac 405

<210> 16326
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E7

<400> 16326

aaacggtggc tgcgtggtgt tccatcggtt cgccttgagc cattatttag gcgaagaggt 60
ccacaattgc atactgcact tgaacatata tagtactcat gaagttgttc tacatcatat 120
tggatttcaa tgctttttta tcagtacag ttttctcttt tttggtgagt acagtaattg 180
tatttttatc ttgtaataga ttagttttat tcatacgaca agcactatgc actgtgatat 240
ttgttgattt ttccttt 257

<210> 16327
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E9

<400> 16327

cccaacaagc cgcacgaca cgacaccaag tcgaggagct cgagagggca ccaataatgg 60
 ccggcgtgaa ctccagcgtc gtcggggtca agcccgccgc ggcagtgccg caggccgccg 120
 ccgcctcatc gccggcgaag cgggtgcagc tggccgcgcc cgagggccgc cgcgccgctc 180
 tgctcggcct gggggccgtc ttcgccgtca cggccaccac cgggtcggcc aaggccacga 240
 tcttcgatga gtacctcgag aagagcaagg ccaacaagga gctgaacgac aagaagaggc 300
 tggccaccag tggagccaac tttgcgcgcg cctaca 336

<210> 16328
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F1

<400> 16328

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 atggcagtcg cagcgcgtgc actcgggtgg tagccggtct cgacagcata gaacccaact 120
 tcaatcatgc ctgcgctagt tccgaactca ctacgaccc agtacacgct cgactgtcag 180
 tcgattgata tcaactgttac gctcattgct gccatcgac aactgagccg caactggtga 240
 catccatgct gctgggtcaag aactagtcac aggaagaata t 281

<210> 16329
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F10

<400> 16329

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 cctcctcctt cgcgctcgtc tgctccaaga agaagatcaa gaccgacaag ccctacggga 180
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 gtaccagttc gtcgacaagt acggcgcgaa cgtcgacgga tacagcccaa tctacaacga 300
 ggatgactgg tctcccaccg gcgacgtcta cgtcgggtgga accactgggc ttctgatctg 360

ggcgcgcacc ctgcgtggga tcctcggcgg cggcgcctc ctgcgtctaca acaccagcgc 420
cc 422

<210> 16330
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F12

<400> 16330

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ccatcgacct gggcttcgcg gacttcgtcg gcaaggccgt caacgtcccc tcatcgctccg 120
ccttcgcta ggccccgctc acgatgtca agactgctct gaaggccaaa ccagatcaag 180
actgccaaac cctacgttac tgccccctacc ctgacctgca cctgggacca ctgcccgaca 240
agccgccaag ctacctgact gtccaattcc cgggccacta ccggtgcgac accgcacggc 300
tacaggccaa cctacaaacg ttatgactga actggcagct gcaactgatc cactcccgct 360
accacatg 368

<210> 16331
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F2

<400> 16331

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gcgcatctcg cacgcaagat gcgggctcca aggggcgcat gcggctgccg cggcgccag 120
gagcatgtgg aactgatccc tggcatcccc gacgacgtgg ccgaggactg cctggcgcg 180
gtccccacg cctcccaccg cgcgatgcgc cgggtctgcc gcggctggcg gagcgccgc 240
gcggcgccg ccttcgctc ggcgcgccgc gcggcggtcg ccaacgagga ccttgtgtac 300
ctgatgc 307

<210> 16332
<211> 431
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F3

<400> 16332

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cagtgggtat ctacgcgcac tcgatgcaca agcgccgtgc caccggtgga aagcataagg 120
cctggaggaa gaagcgaaag tatgagcttg gtcgtcagcc ggccaacacc aagttgtcaa 180
gcaataagac agtgaggagg gtccgtgttc gtggaggtaa cgtgaagtgg aaggctcttc 240
ggcttgatac tggttaactac tcatggggaa gtgaagctgt taccgcaag accgatatcc 300
tcgactaggt ctacattgca ttaaacattg agcttgtgag gacacatacc cttgtgaaga 360
gtgccattgt gcaagttgat gctgtcacat tcaagcagtg gtacctcact cactatggag 420
ttgacattgt t 431

<210> 16333

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F5

<400> 16333

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cctggggcgcc cgtctggcgc accaggcgcc acagaacggt ctcatcgctg cccgcttagg 120
gtccgacttg agcggcaagg cgaagcctgc tctaagaag gtggcgaaga catcgacctg 180
ctttgaccgg ccgctgtgga tccacggcgc cgtgacaccc gactacctgg acggctcgct 240
ggtcggcgac tacggtgtcg acccgttcag cctaggcaag cccgcagagt accttgacaga 300
tcgagtagca ctcatggac cagaacctgt gcatgaatga cgccggc 347

<210> 16334

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F6

<400> 16334

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 ccctcctgac cagcagcggc ttatcttcgc cggcaagcag cttgaggacg gccgcacact 120
 tgctgactac aacatccaga aggagtcaac ccttcatttg gtgctgcgcc ttaggggagg 180
 catgcagatc tttgtcaaga ccttgactgg caagacaatc acccttgagg tggagtcttc 240
 agacaccatt gataatgtca aggctaagat ccaggacaag gagggcatcc ctctgacca 300
 gcagcggctt atcttcgccg gcaagcagct tgaggacgga cgcacacttg ctgactacaa 360
 catccagaag gagtcaaccc tccacttggg gctgcgcctt aggggaggca tgcagatctt 420
 tgtcaagacc ttgactggca ag 442

<210> 16335
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F7

<400> 16335

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 ccgcacggcg cataacctca cccgcacggc ggccacgggt accctcctcc cgccacctac 120
 cccgcgcact cggcgacta cgggcacacg gggtcgtacc acaccagcca caacagctac 180
 ggcggcgggcg ggggccacca cggcatctac ggcggcgga agcacggcgc gttcggcggc 240
 ggcaagcaca agagcggcgg cggcaagtgc aacaagtgga agtgaagcga ccgaaacgaa 300
 tcaaaacaac acccttaagt ctgccttcgc acacgtgcac ccgcacacga atcct 355

<210> 16336
 <211> 370
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-002-Q1-K2-E10

<400> 16336

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 gttgggtgat tacgacggag tgggatgggc ctctcgaca agctgtggga cgacaccgtc 120
 gcgggcccgc gcccgacac cggcctcggc cgnctccgca agcagcccgc gcgccccgcc 180

gccgttaaga tcagtgatcc ggccggggac gctgcagcgc tcgtgccgcc ctgccggct 240
 tcgggtagcg aggagacgcc ggtgaagggtg acgcgcagca tcatgatcaa gcgccccgcg 300
 gggtagccgt cttcgccgag gagcgcgga agcacgccgn cggcctctcc acttgggact 360
 atccccgcca 370

<210> 16337
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C7

<400> 16337

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 cggggtcgctc gtgggcctat ccgtggtaaa tggatcctg aagcccgagg cgtagatggt 120
 gtaggctgctc gggccttgta gtttcggccg aatacaagt tttgggcttt agcgcttcgt 180
 tgtcgggtgct gctgtaattt gctgatgacc tcttttgtgt gtaaattgtt attattatag 240
 caattattgg agtgccgata tgggcagct 269

<210> 16338
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C8

<400> 16338

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 cttactacca ggaggtggac tactgctcgg aggaggtgag gtcgggtggc ccggccggtt 120
 tcggccgcca cggcggcggc gtccagcagc acgtcgtcaa ggaaaagtgc gaggaggtcg 180
 acacgggtcga acgcgccggc gccaccacc accaccacca tggtcaccac ggcggccacg 240
 gtttcgtggt gcgcgagacc agggtaagg aggcacatcaa cacctgcacc ggcaaggctc 300
 acaagcgcag ggagagcttc ctggccaggg ctaactgagc agcccgggcg gccggcatcc 360
 acgcccgttc gtgcttgctt 380

<210> 16339
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C9

<400> 16339

ctcctactaa taatataatg atctccatta atgcctacga attagaactc aagtctttgg 60
 gcactcatcc tatactactt attctaactt ttacccctta cacattaaca tctcaaagtt 120
 cacctcacat tactaatact tatccatata agtttaacta taagccttat cctgtataga 180
 taccatcact tctatcaaac ttatcattat ccgtaataata ctactctgaa tatccatata 240
 acaatctact attactacta ttcactctcca atcaacatca acatcttata ttatcaa 297

<210> 16340
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-002-Q1-K2-D1

<400> 16340

gaaagaaaaa aaatcatctg aagaactacg ggccattatt aaaaatatcg gtgacattgg 60
 aaaagagata gaagaagatg gacgtaggat caatcaactg agaagtcaaa ttgatgatat 120
 acgacggcgc caacaaaaca aactaacggc cttcggagga gatagagttc cgagcctcta 180
 taaatcagta gagagacaca tgagtaaatt caaatgccct cctattgggtc caataggata 240
 tcatctgcaa ctggcaagcg attcctgggtc tggtgcaatt gaatatgcat tanggaggtt 300
 attagatgct ttcattgtct catgtcataa ggattcactc gttttacgag aatgtgcaaa 360
 agaagtgaac taccgcaacc ttcaaattat tatatatgac ttcac 405

<210> 16341
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D10

<400> 16341

ccctgctggt gtgagaattc ttaattcatg agttgtaggg agggacttat gtcaccacga 60
acagaaacta aagcaagtgt tggatttaaa gctgggtgta aggattataa attgacttac 120
tacaccccg agtacgaaac caaggatact gatatcttgg cagcattccg agtaactcct 180
cagctcgggg ttccgcctga agaagcagga gctgcagtag ctgcggaatc ttctactggt 240
acatggacaa ctgtttggac tgatggactt accagtcttg atcgttacaa aggacgatgc 300
tatcacatcg agcccgttcc tggggaccca gatcaatata tctgttatgt agcttatcca 360
ttagacctat ttgaagaggg ttctgttact aacatgttta ctccattgt gggtaacgta 420
tttg 424

<210> 16342
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D12

<400> 16342

cccacgcgtt ccgagaattc ttaagccatc acaatatatg aggcctcttat ggcgacaagg 60
ctcacagact ccaccttgag attctaccca agatgagcga gaagaattca tcaggactaa 120
atacgagctg caggaatttc tgaagcctac cttgcacatt gcttctcatc agcctactga 180
ctctgtaaaa catgccgcaa atgcttctca ttctgatggg tccaacagtc aagtctacat 240
gatcgagtac attggaatat cgaatgtcaa ggcgattgca ggcaccaacc tagccatcaa 300
ggatatgtca agcagtgacc cttatgtacg cctgacacta tgtcaacata aagcacaac 360
ttcagtaatc aatggcaacc tgaatcctga ctggcatgaa gaactgaagc tctctg 416

<210> 16343
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D2

<400> 16343

atccggctgc acgtttacga agtattggta ggtattgact ttgataaatg agataagggtg 60
caggagctcg acgaattact tctgaataac ttcagaaatc atatggaaga accatagcat 120

ttcgcgattc attggtaaat ttactttgat tctctataga ccaataatgt gagaccatta 180
acacgggttaa agctaaactg cttgaagtcc gggcaaaaag gggactctt tctacaacta 240
cattagtatt actctcgaaa tgctttaaac gggaaatagc tagtgtagaa tgtatctgat 300
atacaacact catatcgatg aaatagtttg aactatttac tagaaaggca acccatcctt 360
tttcccatgg ccaatcgacc acctaataatg taaaaaaagg gaaatttttt ggaattggag 420
gacaaattaa agggattc 438

<210> 16344
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D3

<400> 16344

cgtccatctg cgcgctggac ttccgcatgg acgagtggg cgtggacgtg gcgctcacgg 60
ggtcgcagaa ggcgctgtcg atgccgacgg ggatgggcat cgtgtgcgcc agccccaggg 120
cgctggaggc cagcaagacg gccagggtccg tgcgctctt cttcgactgg aaggactacc 180
tcaggttcta cgacatgggc acgtactggc cctacacgcc ctccatccag ctctctacg 240
gcctccgcac cgcgctcgac ctcatcttcg aggaagggtt ggacaacgtc gtgaggaggc 300
acaaccgct tgggacagcc accagggtcg ccgtcgaggc gtggggggtc agcaactgct 360
ggcagaagga ggagtgggtc agcgacaccg tcaccggcgt cgtcgtgccg gccaacatcg 420
aca 423

<210> 16345
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D5

<400> 16345

cacaaacagt acttcgtctc ttccgatgtc ggtgccggta aaatgcaatg gtatgctttt 60
cacaaggaag aggctggtgg cactgaccct gagaacggca aaaagaaaag attgcttgag 120
atatttgatg ggtggtgtga taatgtcatc gatttggtta acgcaaccga cgaagaagcg 180

attcttcgcc gagatatata cgaccgcca cctactataa attgggggaa aggtcgtgtc 240
accttgctcg gcgattctgt ccatgctatg cagccaaatc tgggtcaagg tggctgcatg 300
gctatggagg atggttacca gctggccgta aaactagaga atgcctgcca agagagtgtc 360
aagactggaa ctccatgga caatagttcc tccttgagac gttatgagaa agaagagaag 420
ggtgcgtgtt gctgttatac a 441

<210> 16346
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D6

<400> 16346

ccggaagcta cgaagcatgg cgtccgtcac cgcccgcgcc ccggtcgcgg ccctgcgcgc 60
gtcgtcggcc ttccttgccc actctagccg cctcggccgc accgcgtcgc ccacgaggcg 120
cagcctcaag gcggaggcca agggcgagtg gtcccccggc cttccctccc cctcctacct 180
cgacggcagc ctggcggggtg acaatggctt cgaccgttg ggcttggcgg aggaccccca 240
gaacctgcgg tggttcgtgc aggcggagct ggtgaacggc cggtgggcca tgcttggcgt 300
ggccgggatg ctcatcccg aggtgctgac caaagccggg ctgatcaaac gcgccgaagt 360
ggtacgacgc cggaagtcg gagt 384

<210> 16347
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-002-Q1-K2-D9

<400> 16347

catcaagaaa gcaagaaaga aaagactgta gctagctagc caccgcgcgc gcgcacgagt 60
agtctagcta gaatacactc gcgttcaaaa caaacacaca gcgtcgtgct gcgtgatctc 120
tgaccgcgtc gacaactacc gcagcaccaa gcagctgatg gcggccaccg tatcttcctg 180
cctgagcctc gtccccaccg tgcaccaccg ggccggcggg ttcccagca gtgtggcact 240
gacgaacacg cttcagcgcc gtcgtcgttc tcgccgtat cttgtcgtcg cctcggcgac 300

gagagccgaa caggaggccg nccctgtgac gatcgaggac gtggacctca gctctcatca 360
ggccgcggcc gacgacgggg agc 383

<210> 16348
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E1

<400> 16348

gatcggaac agaagtccca aattctttct tttgcttggt caagtgccaa ttgggaggca 60
gaacggaaga cagaacctgc atgcgaactt tagtcgcgct gatttcgatg gaatcggaac 120
tgatttaggt gtatttttagc tctgattgtt cttggcagga gtacaatttt agtagcaccg 180
attgatggta cggttcttct ggggtggtaaa ttgcccttac tgcgacgcga tgtcagactt 240
cgatctctgt tggaagacgc tagacattgc agacatagat attgttactg caatcatgag 300
ctcgaaatcc aaatgtaatc aggtgccagg ttagacaatc gctggaacat gtgtaaaagc 360
tggacgaggt ttcataact cgattgaatc ctgggttcg gcgctaaatc 410

<210> 16349
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C5

<400> 16349

cgccgtcgtc taatctaccg cgcgcaagcc ttcctcggg gctagatctc cgggctccgc 60
ttgcccact tccaccactg aggcgatgca ggaggccaag cacctcacca cctcaaagct 120
tccgcccga tccaatcct catccccatc cccttcgggt cccgcccga accctcccc 180
ataccatcac gactatggta cctttcaccg gccgtttcag ccgacgctgc ccgtcgtagg 240
ccccgcctac catgactacc atgcctctcc tatcgggttc ggcagccagg ggttcgttgc 300
ctaccgggc gccgtccagc agcaggtctt cgtggagggc atccccgtcc gagagccggc 360
cttaccgttc tgcggcgtcg gcgtcggctg gttttgttc taattggggt tcttcttggc 420
ggcaatcccc tggtatgct 439

<210> 16350
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-002-Q1-K2-A7

<400> 16350

cgaccaccac cgccggcccg gaagcaagct caaacccctaa tcgccgtccg ccggcgacgc 60
cagcacgatg gcccgctacg accgcgccat caccgttttc tcccccgacg gccacctctt 120
ccaggtggag tacgtctctg agggccgtccg caagggcaac gccgccgtgg gcgtccgcgg 180
cacggacacc gtcgtcctcg gcgtcgagaa gaagtccaca cccaagctcc aggactccag 240
gtccgtgcmc aagatcgcgt gcctagacac tcacatagct ctggcgtgcm cgggtgctgaa 300
ggcggacgcg cgcgtgctca tcaaccngc gcgggtcgag tgccagagcc accgactcac 360
cgtcgaggac cccgtcaccg tcgagtacat caccgctac atcgctgggc t 411

<210> 16351
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-B10

<400> 16351

gcagccccta gctaggcggg ggatcggagc ctgtatcaga aatcgaaata atataagagt 60
gtcttcaacy gatcacactg ccgctcccc acgctaaatt tgggggctac agtgcacacg 120
ctagcctatc aacggctcac gctaccaggc gctctacgcg gatgtgcccc ctagccagct 180
tctctctccc cctcgttctg tgggtgcctct ctacccctct ctaatattgt tcacgtgggc 240
ccacttccaa ttattagtag atgaaaaatt gataggagggt gaaaagtagg tatagaaaat 300
gatattttat ggttgtagtg ggggtataagg ggaaggattt aggggggaaac gctgtacaga 360
gtggagatat aggggggaag agaacgctga cgtggcacgt gagggggata tagggagaga 420
aatttagggg taaccgctga ag 442

<210> 16352

<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-002-Q1-K2-B11

<400> 16352

ggctccctcc tcttcctgc aaatcctgca gacaccaccg ctcgtttttc tctccgggac 60
aggagaaaag gggagagaga ggtgaggcgc ggtgtccgcc cgatctgctc tgccccgacg 120
cagctgttac gacctctca gtctcagtca ggagcaagat gggtgccggc ggcaggatga 180
ccgagaagga gcgggagaag caggagcagc tcgcccagac taccgggtggc gccgcgatgc 240
agcggtcgcc ggtggagaag cctncgttca ctctgggtca gatcaagaag gccatccccg 300
cacactgctt cgagcgctcg gtgctcaagt c 331

<210> 16353
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-B12

<400> 16353

ctccggtcgg tcatccactc atcctcatcc cctggcccct gcccatccga tccgatcggc 60
catcccctac ccctacctga tcggatcccc tgctcttccg ccgagcacca ccaggcagca 120
ggctgcagcc gtcgagcacc agcaggagca cggccaggag gacgacgccc gcatcctgcc 180
tcttctctgc tgctggagct tctgctgcca ggagcacggc cagaaggacg acgcccctgc 240
tgctgccggt tgctcttcta tggagacttc caaagaacag gcttccaagg actatgctgg 300
tttcgagaag aaagttaaga ggacaatata tattgaccac ctttctctc aagtaaagga 360
atcgccatc aaagctgctc ttgcacaatg tgcaaagtgt gtccatgtgg agttcatcgt 420
caattacacg atcccctata aaga 444

<210> 16354
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-002-Q1-K2-B2

<400> 16354

cggtgcacctc gtcctcggtc gtcgccatgg ggaggtcctc ttccacggag aagctggtgt 60
gcttcgtcct ggcggttctg gccgtgctgt ccccgctgta catcgaccgg cggcccgtgg 120
cggagcgaga ggaggaggac gaggacgacg gggcgggccc gtcggcgctg tggctgccgg 180
cggtgctcct cgcgctcatc ctcgccatca acgttacgtg cttcatggac cggcgcgctg 240
tcaggttcga cccttactgg atccaccgcy tgtgggggtc ctccggcggc ctccctcgcca 300
tgctgctgct cctcggttcc gtgctcaggt gcaaggcgtn cctgctgtat accagctact 360
aggtggtagc tcggggcggtc gtcgtcatgg gtcttttttt 400

<210> 16355

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-B3

<400> 16355

cgctgtcgga ggagggcggt gttgggggaa gtgccgcagc gcgaggagat aaagcgtggt 60
ccaatcttcc aatccccctc ggctgccact tgttctagta tctagttagt tgtgaacttt 120
aaaatagggt aaataaatac atgggagtc aagaagattc taggccttct ggcgccttgg 180
gtggcctata cagggtacag cttgtgggccc ggtcaatata cagtgatgac gaagcattca 240
agactcgcat tatggattct tcaacttgtg aaccacatga ggataatggc tccagccggc 300
gtttgcta atctggagatca tggcagcata gacccccatg cttgaagccc atacactgta 360
gcctctcatg cgactaacat gttggtgaaa ctatt 395

<210> 16356

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-B5

<400> 16356

gcggcataac aatgtggttc caaccatggc cttgggagtg cagcagctga agaaggagct 60

gggccgctca aggaaggttc cattcgagtt cgatgagatc gacgagttcc ttgaccggtt 120
 ctacatgtca aggattggca tccgcatgct gatagggcag catgtgggtt tgcattgacc 180
 taaaccggag cctggtgtca taggcctcat caatacaaga ttatcccca tccaggtggc 240
 tcaagctgcc tgtgaagatg ctggttctgt ctgtttaagg gaatatggat cagctcctga 300
 tattaacatt tatggcgatc caaattttac atttcatac gtcacattac acctacacct 360
 gatgttattt gaattggtga agaactcttt ccgcgcggtg caagaacggt atatgaactc 420
 tgataaagat gttccccag tt 442

<210> 16357
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-B6

<400> 16357

attttctttt ttatttaata gtctctgact atcattaaat aaagggtaga gcaattcgtt 60
 tttctagaga ttctagagaa agtgagacaa agtgaagcga aagagttttc tttgtataag 120
 aattaggtct atatcatatc taaatagaag ggaaatcaaa aagaaggga gtggttgatta 180
 cattggatga atccttaagg aagacatatc acaaaagaaa taaaggctaa agtaagcgct 240
 ccttgccttt ggtttgagca aaacagattc ttgtttcacc gaggaaaaga gagaagttct 300
 ggataaattg acaatgtcaa cttgaattga ctaattcagt tccgcctatt ccacattaat 360
 gggagtcctat taatgtttct gctttacgaa tatgatattt tttggacatt tctaataata 420
 gcagg 425

<210> 16358
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-B7

<400> 16358

gcaagctaag gagagtgtga tcaccaacag ctagtgttag tcccccttcc ttccatccat 60
 ccatggcatg cgtcagcacc ttccagagct gcccattg cagaagagca aagatcaaca 120

ccaggtccag gggcagcagc agtagcgtgg cgaaggggtc accaccacca gccttccagt 180
tccagtgcag ggcgtcgact ttcgcggcgg acaccagcct ccggctcgag ctggacgaga 240
accccgaggc gatcatctcg ggggcgtggc ccgggaactg ctccctcctc agctacgacg 300
acctccgcgc ctacctcgag tcgcaggaga cggcggccca ggcagacgat cagcgcggcg 360
tggcgctcct gaccgagacc atgtccacac ccgtgctggt ggccaca 407

<210> 16359
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C1

<400> 16359

cgctgtcgga ggagggcgtg gttgggggaa gtgccgcagc gggaggagat aaagcgtggt 60
ccaatcttcc aatccccctc ggctgccact tgttctagta tctagttagt tgtgaacttt 120
aaaatagggt aaataaatac atgggagtcc aagaagattc taggccttct ggggccctgg 180
gtggcctata cagggtacag tttgtgggcc ggtcaatata cagtgatgac gaagcagtca 240
agactagcat tatggattct tcaacttggt aaccacaaga ggataatggc tccggccggc 300
gtttgcta at ctggagatta tggcagcaaa gacccccatg cttgaagccc atacactgta 360
gcctctcatg cgaataacat gttggtgaaa ctattgcaaa tg 402

<210> 16360
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C10

<400> 16360

gcgaagcaag cagcctaaaa aaaccgtatc gtctcgctg ttcagtttcc ttctcttccc 60
gcagcccggg ttgccgacca ggttccaccg ttccagagta gccaaagcgaa tcccgtgtct 120
ggttcgcgcg atggcggagg agcagtccaa cccccagcac cagcaagcgg aggagagggg 180
ggttatggtg gagcagcagc agccgaggag ggccccgaag ctgaggtacc tggacttcgt 240
ccaggtggcg gctgcccagg ccgcgggtgtg cctcgctggg ctctacggcc tcgccaagga 300

ccacgccggc ccgcttccgc cccagcggtg acgccgtcga gtctgccgtg aagggcgtcg 360
 ttagccccgt ctacgacc 378

<210> 16361
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C12

<400> 16361

cccacgcgtc cgttttcttt atccaagcaa agacttactt ccagatgata aggagatgag 60
 tatatttgat catctagagg agcttcgtga caggattttc atctcagttt tggctgttgg 120
 ggctgcgata ttaggctgtt ttgctttttc aaaagatttg gttatttttc ttgaggcacc 180
 agtgactgct caggggtgttc ggtttttgca gctctgcctt ggggaatttt tctttacaac 240
 attaaagggtt tcagggttatt gtggcctttt acttggaagt cctatcattt tgtatgagat 300
 cattgcattt gttatcccag gttaacaag ggacgagcgg aaatttcttg ggcccaatgg 360
 ggtgggggtcc tctgggtctat tctatctagg cattt 395

<210> 16362
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C2

<400> 16362

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaagg 60
 ggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa caaaaaaaaaa aaaaaaaaaa aaagtgtgtaag ccattttaaag 180
 ctcaaaatta aactacaggg tgctaacaaa gcaaaacttt taaaaataca caactaaaaa 240
 agaatccatt aaatgcatta taaaatatct aacctg 276

<210> 16363
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C4

<400> 16363

ggccggcgctc taatatagtg agcgcaatcg atgcctacga actaggtctc aaagctgggg 60
tcgctcaact tgtactacag aggcgaagct tgagggctta cgcatagaaca tgtcaaaggt 120
cgcttcagag tatcaaagct gacagggata agttgcacta ttagcggtgt acccgtagag 180
catagatca ctaatatcga acttggcatt gtccgtaata tactacgctg aagctcgata 240
ggagagtcta ccaggagtac cat 263

<210> 16364

<211> 327

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-002-Q1-K2-A6

<400> 16364

gcagtcacca aaccaaaccg ctctcgagtc tccatccatt ctctccgctc atccgcaggt 60
ctctagtctc cagctctagc tagccttagc ctctgccaag ggacgaaggg gccaccatga 120
gcgtggtgat cctggacggc tccacggtgc gcggcttcgt ggcgacgag gcggccttcg 180
cgcgacgctt ggacgcgcgc ttcgccgcgc tggacgcaa cggcgacggc gtgctgtccc 240
gcgccgagct ccggcgcgcg ctcgagtcct tccgcctcct cgacggcggc ggcttcgggt 300
ccgnccagcc ggcgccggtt cccggcc 327

<210> 16365

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H11

<400> 16365

accggagaga gaaccgcgtt cgaatgcaca aacttctgta accccactta catgagcgat 60
tgatctaccg tcatcattga ctgcgctgga tccacacca aagactacca gaacagcacg 120
aaactgaaaa ggactaaagc ttttaagtat actcaaccaa ttacaccagc actaatgaaa 180
caaatgcctg atgatttct 199

<210> 16366
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H12

<400> 16366

agcatctcgc cgtgaagcac ttctctgttg agggtcagct tgagttcaag gctgtcctgt 60
 ttgtgccgaa gagggccccc tttgacctct ttgacaccag gaagaagccg aacaacatca 120
 agctctatgt ggcgcgtgtc ttcacatgga acaactgtga ggagctgac ccagagtggc 180
 tgagctttgt caagggcatt gttgactctg aggaccttc cctcaacatc tcccgtgaga 240
 ccctccagca gaacaagatc ctcaagggtca tccggaagaa cctgggtgaag aagtgcattg 300
 agctgttctt tgagattgct gagaacaagg aggactacaa caagttctac gattccttct 360
 cgaagaacct gaagcttggc atccatgagg actccacgaa caggaacaag attgcggagc 420
 tgctg 425

<210> 16367
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H2

<400> 16367

cccacgcgtc cgcaggaagc tgacatggat ttattccttg ggaacctgca acatcaatgc 60
 taagtttgag tctaaacctt ttgaacttat tgttacaaca tatcaggctg cattgctact 120
 actgtttaat ggatctgaca ggcttagtta ttctgagatt gtaacacaat taaacctgtc 180
 agatgatgat gtagtgcgtt tgctccattc tctttcttgc gcgaagtaca agatccttaa 240
 caaggaaccg gctagtagat ccatctctcc caatgatgtt tttgagttca attcaaagtt 300
 tactgacaga atgagaagaa tcaagggttc actccctcct gttgatgaga agaaaaa 357

<210> 16368
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H4

<400> 16368

ctgagataaa tcaagttgct actcaagaaa atgaaatcag tcagaatggt agacctgcga 60
tctgaaacat gttcagcact accagaacct attccagctg atgggagtgat gatctcagac 120
catgtgacag ctgatagtaa tgtcacggag aagcaaataa gtgatctttc tgctaattggg. 180
actgccattg aaagtaatga taatacccag ccacctgtgc aagtgcccaa agaggatcca 240
aagaaggccc tacttgttgc tcctccccct ccaactcaga tggatgttac taagaaatct 300
tatgcatcca ttgtcaagggt catgaaggag ggccccacc 338

<210> 16369

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H5

<400> 16369

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aagcatggcg tccgtcaccg cccgcgcccc ggtcgcggcc ctctgcccgt cgtcggcctt 120
ccttggccac tctagccgcc tcggccgcac cgcgtcgccc acgaggcgca gcctcaaggc 180
ggaggccaag ggcgagtggc tccccggcct tcctccccct tcctacctcg acggcagcct 240
ggcgggtgac aatggcttcg acccgttggg cctggcggag gaccccgaga acctgcggtg 300
gttcgtgcag gcggagctgg tgaacggccg gtgggccatg cttggcgtgg ccgggatgct 360
catcccgag gtgctgacca aagccgggct gatcaacgcg ccgcagtggg acgacgcccg 420
caagtccgag tacttcgcgt cgtcg 445

<210> 16370

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H6

<400> 16370

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gacaggatat gaagcgaagt ttgtttg

87

<210> 16371
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H7

<400> 16371

caccgtctta ttctatacca cattcagact gtcatttaaa aaaaaccgga actgtaaata 60
ctacatctaa acaccaacta ctaccatcat ccactataac tttctatacg aaataaattt 120
aatcacttcc tcctttacaa cgcaaactat aaaaccctac taaccaact t 171

<210> 16372
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H8

<400> 16372

ctgagataaa tcaagttgct actcaagaaa atgaaatcag tcagaatggt agacctgggt 60
ctgaagcatg ttcagcacta ccagaaccta ttccagctga tgggagtgtg atctcagacc 120
atgtgacagc tgatagtaat gtcacggaga agcaaataag tgatctttct gctaattggga 180
ctgccattga aagtaatgat aataccagc cacctgtgca agtgcccaa gaggatccaa 240
agaaggccct acttgttgct cctaccctc caactcagat ggatgttact aagagaactt 300
atgcatccat tgtca 315

<210> 16373
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H9

<400> 16373

ccgtgacaag atccaccagc gcggatggat ggccaagatc ttctgctggg tcatcatcgg 60
cttctcatg ttcttcgtgc ccaacggggc cgtcagcttc tatgaatcta tatccacgtt 120

tggctctggg ctgttccttc tcgttcaggt tgttctgctg ttggattttg tgcacggatg 180
 gaatgagaac tgggtcgcca aggatgagca gttctggtac atggctctgt tgggtgtctc 240
 ggttgtctgt tacattgcca cgttctgttt ctcgggtctc ctatttcact ggttcactcc 300
 atctggacat gactgcggac tcaacctgtt tttcattgtc ttcacgttga ttcttgtttt 360
 tgcgtttgct attgttgccc tgcacccaaa gatcaatgga agc 403

<210> 16374
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-002-Q1-K2-A1

<400> 16374
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 atagtctatc gcgtgcacgc atctgggccg ctcgaccctc ggcggcgggc ggcggcgacgg 120
 cgacgacgac gatggggctg gagatggagg cgatggcggg gtcgatcggc gtgtcgggtgc 180
 ccgtgctccg gttctgctc tggttcgcgg ccaccatccc gacgggcctc ctgtggcgcg 240
 cggtgcccgg cgccatgggg cgccacctct acgcgggggt cactggtgcc acgtctcct 300
 acctctcctt cggggccacc tncaacctnc tcttcgtcgt gcccatgacg ctcggttacc 360
 ttggcatgct cct 373

<210> 16375
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-A11

<400> 16375
 atttcggctg gaaaggacgc ggagagcgt tactgggaac tcgttataaa ggatatccag 60
 gatgcgtgca aactttttga gcccatctac gatgagactg atggggctga tgggtatgtc 120
 tccgtagagg tgtctcctag gttggcaaat gacactcaag gaactgttga agcggcaaag 180
 tggttacaca aagtgggtcaa ccgcccgaat gtctacataa agatcccagc tactgcagaa 240

tgtgttcctt ccatccagga agttatcgct aatggcatta gcgtcaacgt cacgcttatt 300
 ttctcaattg caagatatga ggctgtgatt gatgcttacc tcgatgggct agaggcttct 360
 ggcttgagtg acttatcccg agttactagc gttgcatcct tctttgtcag ccgagtggac 420
 acccttattg acaaaatgct tga 443

<210> 16376
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-A12

<400> 16376

agggactgtg ccattatttg accttgctct tctcgtgcag gtttccgcaa ggaagaccga 60
 aatatacatg gtgcttgagt acgtcaatgg aggagagctg tttgacaaga tcgcgttgaa 120
 gggtaagctg acggagaagg aaggaggaggaa actgttccag cagctcatag atgccgtggg 180
 atactgccac gagaagggggg tttatcacag ggacctcaag ccagagaatg tccttggtga 240
 tgcaaaagga aacataaaag tttctgattt cggattaagt gcccttccac agaaccaaca 300
 aaaagatggt ttgttgcata ccacatgtgg cagccctaac tacatagccc ctgaggtcct 360
 tctgaacaaa g 371

<210> 16377
 <211> 382
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-002-Q1-K2-A3

<400> 16377

cagaggtggg ctggcttctc ctccccctct taccaagtcc tccttggggtt agggttccgt 60
 tagggttttg tggagggcga tggcggcggc tgatgtggag taccgttgct tcctcggcgg 120
 gcttgccctgg gccaccagca acgagtcgct ggagaatgcc ttgccttct acggcgagat 180
 cctcgactcc aaggtcatca ccgaccggga gacgggaggt ctgcgggctt cggcttcggt 240
 accttctcct ccgagaactc catgctcgac gctatcgaga acatgaacgg caaggagctc 300
 gacggccgta acatcaccgt taaccaggcc caatcccggtg gcggtggcgg tggccgcggg 360

ggctacggcg gcngtcgcgg cg

382

<210> 16378

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-A4

<400> 16378

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acatttactg cggttctcaa aagatgtgac agaagcgcta ttggtgacag taagcctgtt 120
atgttgcac ctttccatc cagtttcaaa ggtttatctg cactattggg tgatagaaga 180
ccagtaagag ctactgtaac taagtatcac ttgcaaaggc tgggaattgc ctgtgatgtt 240
gttgctacca ttgaactggc tcttgggtgtg ctgtccggga gaaatggcag ttccctaacc 300
a 301

<210> 16379

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-A5

<400> 16379

cggacgcgtg ggttcaaagg tggcattgcc ggtctgggat gatgatagac atggaaggcc 60
taatcggggg gactggaaat ctgcttcttc aaggagcaa aggctggact gtggtgacag 120
aagggattct acaagagtga aaccaacaga tcatgatggg agcaatgggg gatcgggaag 180
gtctttcagg catggtcgtt caatgtctcc agaagagcac aggcacggg gcaggcatga 240
atctcatcca tcatcgagag tgtccagaag tgcagcacat atcgaggata ttaacttcga 300
gaggagtga agcatccccg gaatggagat cctgatgctt tggcaacaat gaacggcact 360
gcagaagctc ttgaagcaaa ggaaaagcaa aggccatcgt ttgaa 405

<210> 16380

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-F3

<400> 16380

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gccactggct gcgcacgcac tgctgctgg agccctacat catcgccgcc aaccggcagc 120
tgagccggct gcacccggtg taccgcctgc tgcacccgca cttccgctac accatggaga 180
tcaacgcgtt ggccagggag gcgctcatca acgccgacgg catcatcgag gagtcttctt 240
ggccggggcaa gtacgccgtc gagcttagct ccgtggcgta cggcgcgacg tggcagttcg 300
acacggaggc gctgcccacac gacctcgtca aacgcgggct ggccgtgctc ggtgaggacc 360
gggagctgga acttaccat aaagactacc cct 393

<210> 16381

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-F6

<400> 16381

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ggagactaaa aggatacatc agtctggaga tttttctgac atagcaggat ttaatatgag 120
gctgcaattt attgcagatg tgtgcatttt ccacagtatt gccgaggatc aagttatatt 180
ccctgcagtg gatggtgaat tgtcctttgt gcaggagcat gctgaagaag aacggcgatt 240
gaataaattt aggagtttaa ttgaacaaat tcaactagca ggagccaagt caactgtagt 300
tgattttcat tcagagttat gctcacaagc tgatcaaata atgcagaaaa ttgagagtca 360
cttcaatgat gaggaatta 379

<210> 16382

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-F7

<400> 16382

cggacgcgtg ggccaaggcg cacgtgctga cccacgacac ggggtaccac gggctgggga 60

gccactggct gcgcacgcac tgctgctgg agccctacat catcgccgcc aaccggcagc 120
 tgagccggct gcacccggtg taccgcctgc tgcacccgca cttccgctac accatggaga 180
 tcaacgcgct ggccagggag gcgctcatca acgccgacgg catcatcgag gaggccttct 240
 ggccgggcaa gtacgccgtc gagcttagct ccgtggcgta cggcgcgacg tggcagttcg 300
 acacggaggc gctgcccac gacc 324

<210> 16383
 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-F9

<400> 16383
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 agcaaggcgc gcaccacgcc gtcgccggcc ggccacttcg cacgtacgta ggacgcgcac 120
 gcaccggtgc atatatgggg ctctgaacc agctgtggga cgacacggtg gccggggcgc 180
 gcccggaetc cggcctcggc aagctccgca agtacgctc cttctcccc tcgtcgtcgt 240
 cgtcggcggc ggtggcgggc gggcgggcgg cgggctcgc gccgnctccg ggcgccgtga 300
 cgcgagctt gaccatgctg cggcgggcgg cggcgctgtc cgtcgtcacg tcgccccgca 360
 gcgagtccag ctccgcgccg tcgtccccgt cgcccgaag cggcgc 406

<210> 16384
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G12

<400> 16384
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 cggttccagc ggggtccctc ccgctggtct ggcagcagcg gcggcggtt agggggtagc 120
 ccgcccattc gctactctc ccgcggcgcg gcagatggag gtggtggaag gggcggtggc 180
 agtggcggtg gcgggaggtt ccacccttac cgtggttctt ccgactattc tagcggcggt 240

ggaggggtaca gaggcggtag tggcggttggg aacgacttcg gcgaccagaa gcaacgttac 300
ggcggcggca acagagggcg aggccgtggg gattt 335

<210> 16385
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G3

<400> 16385

cttcagagtt cggcgaggcg aggcgaggcg aggcgaggag ggatgggaaa tttttgggga 60
ggggaagaag ccttaaccgg aagaaagtga agagagaata gcttccgatc ttgattaccc 120
cgggtctccgt atcgggaatc caattcgggt ccattccaacg cctgagatcg gattccaacc 180
cccatttcgg accgatcgt ttccgcagac cgatcggctt tgggggattt tttttccga 240
gcgatttttc tggaggetca gatcgggtcg gtctgagttt agttgatcgc ggagcgatgc 300
taatcgagga gcttccgggc gatccgggtg gagga 335

<210> 16386
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G4

<400> 16386

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gttcgcgtca gctcctgcca tattcgctc cgtcttcgag cgttcctgcc ggagcgcggg 120
tccgggcatt ctttctgag acttcgggag ggcccgcga ggctcgcgtt gcgccgtgca 180
gtgtgaggtc gacttcttct tcgcaccgtc cgcggctgga cccagggccc gacggtgggc 240
ccagaggacc gtggtcattc cggcacagcg ccgcgggtgc cacctcatca ccaacaagat 300
cgtaaatag atagggaatg acctggccga cttc 334

<210> 16387
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K2-G8

<400> 16387

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atgactgcat cagataatat taggacgcct gttatgaagt gtcctttgct cgaacatatt 120
tctgaggatg atgctaaaat ggtggttgca aagcttagga gggttcgtgt ggctgatgta 180
gtggagaaaa ttgaagtctg cacagttcct ttttacaact ctaatgggcg tgtttcaacc 240
ctgtacaagt tacagatgaa actctatcca caagaccagc ttgagtcagg tcttactata 300
gatgagtgtc aggcaacctt gagaacagtt tttgttgagg caatggaaca tgcaattgaa 360
aagcatctag atctgctata caaaataaat gaaatccgtg ctngtaagat ggaagattca 420
gagggctcat tattaaatgg tgatgaagaa tc 452

<210> 16388
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G9

<400> 16388

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cgtcggcggc gtacccttct cgtcctgcat cggcgacctc ctccgcttcg tcctctcctc 120
ccacgccgcc gcctaccccg gtgacgacac ggtcgctttc cccctctcgc cctcctactg 180
cgcccgctc ctcaacgacg gcgaactgtt cgagaagctg gaggcctgta ttcagcagtg 240
cctcgaggag gggcggtcc cggggccgcc cgcggtggtt gggattccgg ctgaggagga 300
ggggccggag gagagagggg ggaagctgct gctgccggag aaaggcgctg agttgaagcg 360
gatgtacgat gctgttgagt ttgagctgca tgttcaggaa ccctacttca ctcaactcag 420
agccggagtc aagaaggttg aaggga 446

<210> 16389
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H1

<400> 16389

caggaagctg acatggattt attccttggg aacctgcaac atcaatgcta agtttgatgc 60

taaacctatt gaacttattg ttacaacata tcaggctgca ttgctactac tgtttaatgg 120

atctgacagg cttagttatt ctgagattgt aacacaatta aacctgtcag atgatgatgt 180

agtgcgtttg ctccattctc tttcttgtgc gaagtacaag atccttaaca aggaaccggc 240

tagtagatcc atctctccca atgatgtttt tgagttcaat tcaaagtta ctgacagaat 300

gagaagaatc aaggttccac tccctcctgt tgatgagaag aaaaagggtg ttg 353

<210> 16390

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-001-Q1-K2-F12

<400> 16390

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ataaacaacc ggcgctgtta cagccncgcc aagaacagga gcaataacaa caaggctcct 120

cgcaacaatc cattctcatc catggcgaag ctcatgaaca agctggtcga ttcgttcgag 180

cacgacgaga taccggacgt cggctgcgtg cgcgccgtgc tggccgagct cgtcctcacc 240

ttctcttcg tcttcaccgg cgtctccgcc gccatggccg ccggatccga cgggaagccc 300

ggcgacgcta tgccgatggc gacgctggcg gcggtggcaa tcgcgcacgc gctggccgct 360

ggcgtcctgg tgacggccgg gttccacgtc tncggcggcc acctgaacct cgcggtgacg 420

gtggggctca tg 432

<210> 16391

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D2

<400> 16391

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cacttcttgt cgtgctgcag caggatgctc gggctcaagt atgagtcgca gaggggctac 120
attgctctgg agtactatgg ccggacagtt actatcaaga tcttgctgt gggagtacac 180
ttggagcagc tacggtcagt cctcaacctc ccggagcttg gggccaaggt ggccgagctt 240
ctgaaacagt tctgtcatcg gaaccgtctg ctgttgcttg gtgttgatga catggatata 300
ttcaaaggaa ttagcttgaa gcttttggcg tttgagca 338

<210> 16392
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D3

<400> 16392

gcaagagtct aggaggtcat tgcaaagcga gataccaag ctattacaat cgaactctgt 60
tctatcaaat gaactaaatg attccattga aaaacagaag aggtttgaac atgatttcag 120
caatcttggt agtgaagcag ttagtaaaga tctctcagt gtgatcttta gaagccttca 180
tgaagagagg acattgcagc tgaagtcttt gcataataac ttgggctgtc ttcaaacagc 240
aggcgggtgag ctttatcagg agatcaagat gatgaacaag aggcttggag acatagaaat 300
ggagaacaag t 311

<210> 16393
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D4

<400> 16393

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tccttctctg tggcgggata tccttttgat tcgtaactta taacagaaga ggaggaggca 120
cagcaccttg tcaaatgatg aactctcaga agctgcagct gcccgttcag gatctgatga 180
gtctgagagg gagatcattc atcatcagca aggtgatgat gcaccagtgc actgcagctg 240
cttcgtcgtc gtcttcacct gctcctgctg ctagaggcct gcaggttgct gcccatccca 300
gtcccagcag gaggcggcgt cctcgt 326

<210> 16394
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K2-D5

 <400> 16394

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 tgtccattcc ccctccatca ttctctccc ctttctccac catcagggcg aaaattttat 120
 gcgagctttg gaaagcgcg gctagtttat ccggccgggc gtggtcaccg aggcagtagc 180
 ggcgagagag gggaggatct gatcgatgtc gtcgggcgag gacgggtact gcagctcgga 240
 ttccgcgcgg gcggaatccc ccgaccagcc gcaggcagct gcggcggcgg acgcggacgc 300
 ggacgcggag tcgcctcgcg ccggagccgg gccgaacaag cgcg 344

<210> 16395
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K2-D8

 <400> 16395

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 gacaccatcg tcgactggat cccgggcgcg cccaaggacc tgcggctccg ggacttcccg 120
 agcttcgtgc gcaccacgga tccgaacgac gtcattgtca acttcttcat ccacgagacg 180
 gagggcatgt cgcaggcgtc ggcgggtggtc atcaacacct tcgacgagct cgacgcgacg 240
 ctgctcgctg ccatggcgaa gctcctgccg cccatctaca ccgtgggccc gctccagctg 300
 acggtgcgga acaacgtgca ggcgaacagt cctgtcgctg ctatgggggtc caacctgtgg 360
 aagg 364

<210> 16396
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K2-D9

<400> 16396

gccagagtgc taccagaacg gcgtgtttgg cctgccccgg gggaagatgg atgtggtgga 60

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ggtatacaag gcagatacaa ggggaggatt ggatcttggt cgacatgcct ttgatgggaa 180

attccctgca cagggttaaatt ttagtggtga caaggattgt cttcctattc ctgagagtag 240

tttcaagcat gccattaagg agaactacag ctcaaaaggc aggttcaccc aagagctgaa 300

ctctaaacaa gttcaaagac tattggcaat gttcaagcct atcgaccttc ctcaatcagc 360

tccacaacat atcgaggaag tgcgacaatc acatatcatt gaagatatta gaaacccgag 420

tgactatgaa gatagaagac gattg 445

<210> 16397

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E10

<400> 16397

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ggcgccgtca cggcgcggcc gaccccgagc accagcacca gcaccaccac agccggcggc 180

ggcttcatca ggtcgtggtg tgcggggacg gactaccggc ccctgtgcaa cgcgacgctg 240

gccccgtacg cggcggaggt cggggccagc cccgcgcgcc tgcgctggc ggcgctgacg 300

gtcacgctgg acggcgcgcg gagggcgacg gccgcgatga aggcgatggc ggcgggcggc 360

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<210> 16398

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E11

<400> 16398

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aggtccttca	ccgtgcgtgc	ctctctccgc	aaggccactg	ccaccgccgc	cgtggccggt	180
gccgccagcg	tcttgcttgc	cggcgggcggc	gccatggccc	aggaggtgct	gctggggcgca	240
ggcgacggcg	ggctcgtctt	cgagcccagc	cagttcaccg	tcaaggccgg	cgacaccatc	300
accttcaaga	acaacgcggg	cttcccgcac	aacgtcgtgt	tcgacgaaga	cgaggtgccg	360
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<210> 16399
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-E3

<400> 16399

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gccctgtcac	cgaccgcgcg	gcctccgcgc	tcgagtccac	ggtcttcgcc	gcgctcggcc	180
gcacccgcga	cgcgcttcgc	ttcgcacgct	tcgccgtcag	gtacggcaag	agctacgaga	240
gcgcggcgga	ggtccataag	cggttcagga	tcttctncga	gagcctncag	ctgggtccgct	300
ccaccaaccg	canaggcctc	tcctaccggc	tcggcatcaa	ccgcttcgcg	gacatgagct	360
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ggcaccaccg	gatgcgcgcc	gcc				443

<210> 16400
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E4

<400> 16400

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aggttgggga	gcacgcgatc	atgtccagcg	cggagttgaa	cgtgtctgcc	ggctccggcc	180

gcagcatcat ggggcagatc atcacactac ttctgtgcaa accgcgaaca cgaggttagca 240
gacggagagg tcagcgatga acaggaaggc caggagcggc tgcagcgcca gctgagcctc 300
taccatgtac cagat 315

<210> 16401
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E5

<400> 16401

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agaagcaact gctaaatcaa aacagctgac tgaggttcat ggagcatggt taccaccttg 180
gtagcgaca cactatgctc gttacatgga ggttgctca ggtcactgga attatcatgg 240
aaaacctgct gtgcagaatg ttttgcataa ggcatcagaa aaatcagcac atgcaaagaa 300
atgggctgaa ccacatattg agactgctaa gatgaaatgg attcctgtta aggagaaatt 360
ggttgctcctc aagaaaaata cagaacctta tgtacagaag gtatcgacaa gatcagtgga 420
gttttatgag tcatccaagg atgctgtgac acct 454

<210> 16402
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E6

<400> 16402

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gtccccact tcatcacctc cgtttcctac cggaaggc aacttctgtc ggccatctca 180
gtactttttt tggaagatgg atccagaaga ctctagttag tttgaagagg acgacgacga 240
agaagaagat gatgacttaa tgctattcat attgccagcg ctatatctag catctactgg 300
aattggaact ctggatcaaa catctatggt tagtgatggt actgcgattg aaactccaag 360

tc

362

<210> 16403
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E8

<400> 16403

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cggcttcgac tgccgttccc cgtgctcgcg ttatctccct cctctctgcc gcagctcgct 180
gagtccctct gtttccctccc atggcgcggg gttccctgca ggctgctcgc ggcacccatc 240
tcctctgctc gaccgcgagc tcgctccctg gtcatgcgc tcctctgcct aatcgtggtc 300
gcgcgcgcgt gtgccttctc ttggtggtgc tcgaccccg cctcaggcag ccacgtccgt 360
ggctcgtcggg catgct 376

<210> 16404
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-F10

<400> 16404

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ggaggctggg tgccaggccc ccgagggacc catcctctgc atcaataact gtggcttctt 180
cggcagcgcg gcgaccatga acatgtgctc caagtccac aaggagatga taacgaagca 240
ggatcaggcc aagctggctg cctcctctat cgacagcatc gtgaacggca gcgacgccgt 300
catggagccg gttgttgctg gcagcaacac ggtagtagct gttgcccaag ttgagttgca 360
aacaatgaac gtgcagcagc ccgctgatgt tgccggaccc agcgaggggg tggcggcgat 420

c

421

<210> 16405
 <211> 360
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-D12

<400> 16405

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gccggtggcg ccgcggcgga ggcgctggcc aagggcggcg tggagacggt gctaatacgag 180
cggaagatgg acaactgcaa gccctgcggc ggcgccatcc cgctgtgcat ggtgtcggag 240
ttcgacctgc cgctcgacct tgtggaccgc aaggtgagga agatgaagat gatttcgccg 300
tccaacgtcg ccgtcgacat cggccgcacg ctgcgcggcc acgagtacat cgggatggtc 360
  
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<210> 16406
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B7

<400> 16406

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tcaagctcgg cgtcgccaac gccatccagc gccgtggcgg cagggcctcc gtcgaggacc 180
tgctcaccga gctctctctg gacgcaagca gactccgctg cctgcacagc gtcatgcgcg 240
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tttcctctct gctcgtggac gacgacagca gcgtccgaga ttggggccctt gctggtgtcg 360
atggtagcga cgacgacaac aactgcagtg ctcgaagaac ggcgttcaag atgacgcacg 420
ggcaggacgt ctgggatgtc ctcg 444
  
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<210> 16407
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B8

<400> 16407

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acgcccaccg ctactcctag cccctctcct ccttgattt cgcccagtct ccattctctt 120
ttctagccat ggacggcgac ctctcttgcc tacagcaggt cagcgcccca tctctcaac 180
atctcggtc cctgtcccat ctctctcag agccactctt ctggttctcc atggcgtcga 240
catggggctc gcccctgcaa cctcgctcgt ctgggtttcc tcagggcgcc gggatgctgc 300
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<210> 16408

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-001-Q1-K2-B9

<400> 16408

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cgacggcgag aagaacgtcc tcattcttga cctcgggcgc ggtaccttg acgtctcgct 180
cctcaccatc gaggagggca tctttgaggt caaggccacc gccggcgaca cccacctggg 240
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caagaaggac atcactggca accccagggc gtcggcgga ctgaggaccg cctgcgagag 360
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gg 422

<210> 16409

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C2

<400> 16409

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gcaaccatct gattcagaag cagacatcaa tggctagcaa cggctgcaac ggcaacggca 120
acggcaaggc ggcgccggcg ggtgtggtgg tgccggagat caagttcacc aagctcttca 180
tcaacggcga gttcgtcgac gccgcctccg gcaagacatt cgataccagg gacccacgga 240
ccggcgacgt gctggcccac gtagcagagg cagacaaagc tgatgtggac ctggcggtga 300
agtccgcccc ggacgccttc gagcacggca agtggccccg catgtcaggc tacgagcgcg 360
ggcggatcat g 371

<210> 16410
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K2-C4

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gaggaggcgc tgggtgcgctg caccaccaca cgcgctcacc cgaggacgtc ttccgcgatt 120
tccgcgcgcg ccgagccggc atcgtcaagg cgctcaccac ggatgtggag aagttctatc 180
agcagtgcga tccagagaaa gagaacttgt gcctttatgg ttgccaat gagacttggg 240
aggtcactct tccagctgag gaagtacctc ctgagcttcc agaaccagca ctggggataa 300
actntgcccc tgatggaatg gtcgaaaaag actggttgtc tctagtttgc agtcatagtg 360
atgca 365

<210> 16411
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C5

<400> 16411
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gcgcccgtgtc cgccatcttg tccagcagca gcttggtag caggaagtgg cccaggtagt 240
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 cggcgcttgtt gctgcacgta cgtacgcacg cacgtgaacc atgtgtcagt ccatgtaagt 360
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<210> 16412
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C6

<400> 16412

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 aactcaaaaa atcactcctc attacactac aacatctcca tcttcaccga aaccgcatgg 120
 aaccactctt ggatattgta gtacacgata tcaattctac caatctactt ctcaacaca 179

<210> 16413
 <211> 323
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-C7

<400> 16413

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 ccattcccaa gaccaccaca gcgtcgctcg ccaggtgctc cgggacgtct cctgccgcgc 180
 gcgccccggc gagctgctcg ccacgtctcg cccagcggc gccggcaagt ccaccctgct 240
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 cgccgncgnc cacagcgccg acc 323

<210> 16414
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C8

<400> 16414

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ggcctcgctt gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
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<210> 16415

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-001-Q1-K2-D1

<400> 16415

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ggcctcgctt gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180
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ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgggcg tggaggcggc 360
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ggcg 424

<210> 16416

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D10

<400> 16416

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 ccgctcccac ctggatcctg atccggggaa gtcaaagggg agatcgaagc ttgaacagag 180
 ggagccaaaa tggatgaagga cacgcggtac tacgacgtgc tgggcgtgga cccgtccgcc 240
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 aaccggaatg atccgcaggc cgcgggagaag ttccaggaac taggagaagc ataccaagtt 360
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<210> 16417
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-D11

<400> 16417

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 ggcagatggt gctgactcgt ctgtccagcg tttcttgctc gtcaacagcg cagcagttgc 180
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 cggcattggt ccggccagcg acgatgacga cggcgtagc ctcggcaccg tgaagctgcc 360
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<210> 16418
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-B3

<400> 16418

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ccgaaataga aactatttct cgagtgaac accgtaatct tgtgaagttg tatggttgct 180
gtcttgaagg aaataaacca ctgttagttt atgagtacct agagaatgga agccttgata 240
aagcattggt tggaaacggg aaactgaacc tagactggcc aacacgcttt gagatatgct 300
taggcattgc aagaggcctc gcttatctcc atgaagagtc tagcatccgt gttgtgcata 360
gggacataaa ggctagcaat gtcttgcttg atgcanatct caaccctaag atctcggatt 420
tcgggctcgc caaactttac gatgac 446

<210> 16419
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K1-E12

<400> 16419

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gatgaatcct gtcttgctga ggcagcaacc catcggttga ggtgccatct tttagattac 180
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atatattgat tgagatatac 260

<210> 16420
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K1-G12

<400> 16420

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tggaagctgt agacactggt taagcattag acatggtgat atgctgggga catggcatga 180
gtacatggct tatgatgcaa atgctactgt ctaaatagaca tcaaatagtaa cttaaaataa 240
taaaacacaa acatgaactt aatacact 268

<210> 16421

<211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K2-A1

 <400> 16421

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 taatcgccgg gtttaggcag aaggggaggc acgcggcgag gtttaggcgg ggtttgtttt 180
 gtcccttccg tgcgattctg ctctccgcgc gggagggaag tactgacgga agcgaaggcg 240
 aaggcgagg aggggggtccc cggcggtgga agtggaacgc gccgatgcgc aagtttcagg 300
 actccatcaa ggccctccag gccgacatcg atcacgcaa tgcgatggcg tcggaattcc 360
 tgaggggacta cgacggctcg gtcattccaga ttgcgggtggc gtacagcgcc gtcg 414

<210> 16422
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K2-A10

 <400> 16422

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 gctcaaggac ctgcagaagg atcctccac ctcttgacgc gcaggccctg ttgccgaaga 180
 tatgttctac tggcaggcga cgattatggg gccatcagat agcccatagc ctggtggcgt 240
 atttttggtc actatttact ttccaccgga ctaccattc aaaccaccga aggttgcatt 300
 caagacgaag gtttaccatc cgaatatcaa cagcaacggg agcatctgtc ttgatattctt 360
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 ttctgacgga ccca 434

<210> 16423
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-A11

<400> 16423

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agccgcctga gtagcggcac cggcgccgcg gccatccacc ggcagccggc ccggtgctgga 180
gccgtcctcg tcgtcacctg caggcggagc tcctccgcga ccgcccgcg cgcagccgct 240
gccacggcgg cggcgccggc tgccgtagag ctgcagaaca aggggtaagt gtatatatag 300
tggtgtaaca aataagctgg ctgctgctct tgtagctaata tgatcgatgc tgctgctgct 360
gctgctggac gcgcgtgcgt gacctccgac cgacttgcaa ctgcaaaggg tgctgctgcc 420
gacgtgggcg gagttcgagc tcggggcgg 448

<210> 16424

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-A12

<400> 16424

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actcacctga ctagcgacac catctccgac gtcattccacc ggaagccctc ccgcgctaga 180
accgtcctat ttgtcaccta cagcctaac tccttcataa acgtcctcac ctcatgctct 240
gtcactgttg agcatccatc tgccatatag ctgcacaaca acgcgtaagt atatatatat 300
tgatgtaaca gattagctta ctgctgctat cgtaactaat tgatccat 348

<210> 16425

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-001-Q1-K2-A5

<400> 16425

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ccgcgccgtg tgaaaaaat ggctgtgccg gaggtggtgg tggacggcgt cgtcttccc 120
 ccggcggccc gcccgccggg ctcccggggc tcgcatttcc tcggcggcgc aggcgtgcgt 180
 ggctcgcaga tcgaaggcaa ctctgttaag ttcacggcca tcggcgtgta cctggaggac 240
 gcggccgtgc cggcgctggc gaggaagtgg gccggcaaga cggccggcga gctcgcgtcc 300
 gacgccgnct tcttccgcga cgtcgtcacg ggcggttcg agaagttcgc gccggtgacg 360
 atgatccgnc cgctcacggn cgagcagtac gccngaaag tggcngagaa actgctgctg 420
 tactggaagg 430

<210> 16426
 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-A6

<400> 16426

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 aagtgttga tttaaagctg gtgttaagga ttataaattg acttactaca ccccgagta 120
 cgaaaccaag gatactgata tcttggcagc attccgagta actcctcagc tcggggttcc 180
 gcctgaagaa gcaggagctg cagtagctgc ggaatcttct actggtacat ggacaactgt 240
 ttggactgat ggacttacca gtcttgatcg ttacaaagga cgatgctatc acatcgagcc 300
 cgttcctggg gaccagatc aatatactcg ttatgtagct tatccattag acctatttga 360
 agagggttct gttactaaca tgtttacttn cattgtgggt aacgtatttg gtttcaaagc 420
 cctacgcgct ctacgtttgg aggatctacg aattc 455

<210> 16427
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-A8

<400> 16427

ccggcagctg agccggctgc acccgggtga ccgcctgctg caccgcact gccgctacac 60

catggagatc aacgcgctgg ccagggaggg gctcatcaac gccgacggca tcatcgagga 120
gtccttcttg cccgggcaagt acgccgtcga gcttagctcc gtggcgtagc gcgcgacgtg 180
gcagttcgac acggaggcgc tgcccaacga cctcgtcaag cgcgggctgg ccgtgcgcgg 240
ggaggacggg gagctggagc tcaccatcaa ggactacccc tacgcccacg acgggctcct 300
ggtctgggac tgcataaagc agtgggcgtc cgagtacggt aacgtctact acaagtccga 360
cgag 364

<210> 16428

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B1

<400> 16428

ccccaatgaa gtcagcgaga tctccatggc taactcccg cagaacatcc ggaagttggt 60
taaggatggg tttatcatca ggaagcctca gaaggttcac tctaggtccc gtgcaagaag 120
ggcacatgag gccaaagcaga agggaaggca ctctggatac ggcaagcgca ggggtaccag 180
ggaggctagg ctccccacca agattctgtg gatgaggagg atgcgtgttc tgaggcgctt 240
gctccgcaag taccgtgagg ccaagaagat cgacaagcac atgtatcatg acatgtacat 300
gaaggatcaag ggtaatatgt ttaagaacaa gaggggtgctt atggagagta tccacaagtc 360
caaggctgag aaggccagag agaagacact ttctgatcag ttgga 405

<210> 16429

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B10

<400> 16429

gctacatgtc gtctcttttc gtttctcact tcctctcttc gttcccaatt tgaaggctgc 60
ccaacccttg cgccggtagg cggtggcggt gaggatagag ggttacctga ggaggcagtg 120
atggcggccca cgattcagta caaccggagc aaccggcggt tgaagcggat cctgcaggag 180
gtcaaggaga tgcagtcaca cccctcaccg gacttcatgt ccctccccct cgaggaggac 240

atcttcgagt ggcaatttgc tatccttggc cgcagagaca ggcagtttga aggtggaatt 300
tatcatggca ggatccagct accttcggat tatccattca agccaccgtc cttcatgcta 360
cttacgccaa gtggacgctt tgagattcag aagaagattt gcttgagcat atccaattac 420
cacctgagc ac 432

<210> 16430
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K2-B11

<400> 16430

gcaaccggtc cagcactttc acgtcagct ccagcaatgg ctgcctccac catggcgatc 60
tcctccacgg cgatggccgg ccccccatc aaggtgggct ccttcggcga gggccgcac 120
accatgcgca agaccgtggg caagcccaag gtggcggcgt ccggcagccc ctggtacggc 180
cccgaccgcg tcaagtacct cgcccccttc tccggcgagc ccccgagcta cctcaccggc 240
gagttccccg ggcactacgg ctgngacacc gncgggctgt ccgncgacct cgagaccttc 300
gccaagaacc ggcagctgga ggggatccac tcccgctggg ccatgctcgg cgcgctcggc 360
tgcgctttcc ccgagctgct ctcccgcaac ggcgtcaagt tcgg 404

<210> 16431
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B12

<400> 16431

ccccgagtac cagctctgcg actacggagg ctggctccgc gaccgcgtcg ccgaccacaca 60
gtactggacc accatcagcg cctgcctccg cgacggccac gcctgcgccg gcatgaggcg 120
cctcgcgcgg gaccccaaca ctggcatgct cgtgccggag acgcccacca tgttctacgg 180
ccgcaacctc tccccgatcc agtctggatg ctgcaagcca ccgacgtcat gtgcgttcag 240
ctacatgaac gagacgtact ggacacaaaa cccagcgtc ccgacggtga ccaacgacct 300
agactgcaaa aggtggagca acgaccagca gacgctgtgc ttccagtgcg actcgtgcaa 360

ggctggcg

368

<210> 16432
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B2

<400> 16432

cgaccgggat tccctccgcc aagcgcgat ctgaacgctg cgctccgtgt cgccgctcga 60
atccgccatg aagggggcca aatccaagg cgccgccaag gccgatgcca agctggcggt 120
gaagagcaag ggggcgagaga agcccgccaa gggcaggaaa ggaaggccg gcaaggaccc 180
caacaagcct aagagggctc ccagcgcttt ctctgtgttc atggaggaat ttcgcaagga 240
gttcaaggag aagaacccta agaacaagtc tgtcgtgctg gtggggaaag ctgctggcga 300
caggtggaaa tccctgagcg agtcggacaa ggctccctat gtagccaaag ctaacaagct 360
caagctcgag tacaac 376

<210> 16433
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K1-E10

<400> 16433

accactcgt ccgcttgggg aaggggtggt tntaggagtc atactgca tggcagtggc 60
aatggtagca agagcagatg ttatcgagc agtcgcttgg ctaagttagt tgattatctc 120
catagcttga atgaaaacac tgatgagtta gatgtccatc tcattctttt gtctttagac 180
aaacaaatta caccaagctt gcagcagcca cacctttgct gtcggccaac attgtctgtg 240
aagcatcttt gtgaatatgt tgctcatcag acacctttgc tgggtgaaga agttgagata 300
ttggcaatta aaggaagctg cagtacagtt tgtgacaagt catttgatga gacttcattc 360
tctgatgagc taactacgct tggatatagat cctagccaag atgaactgga aactc 415

<210> 16434

<211> 167
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K1-A10

 <400> 16434

 tccacccata cacccttct ccttcccaac ctctcaaadc aaaaaccacc gaaataaaaa 60
 aacattccaa acggaccaac aaacgacccc aaactcttcc atcaccttct tcaccaatct 120
 ctatcgatcc accctccttg cccatcaact ccatcccaaa tttccct 167

<210> 16435
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K1-A9

 <400> 16435

 gaccactcg tccgtcttgg tccgtggcca tggcgatgtc catgctctcc gctaccaccg 60
 tgccactgca gcgggggggt tgaaagtccg agttctccgg gctcaggagc tccgcgtcgc 120
 tgcccatgcg ccggaatgcc acctccgacg atttcatgtc cgccgtctcc ttcaggaccc 180
 acgcggtcgg cagcagcggc gggtcgcggc gggcgccgac ggaagcgaag ctgaangtgg 240
 ccatcaacag gttcagctcg atcgggcgca atttcttg 278

<210> 16436
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K1-B10

 <400> 16436

 acagcaaact agcatagcaa cgtttaaatc ttaaaaaatc cagtccatat aattcactgg 60
 atttttctcc catgaaaaag caaacttcag ctaattatgg cctaataaag gctgtcatgc 120
 ctactgctgg ggagtatgta taccaaagat caatgagcca acctttctta tatgtcaagc 180
 ctgttgaaca tcatgcacta atactatcaa aaactcttac cattttcaaa ttaatata 238

<210> 16437
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K1-B9

 <400> 16437

 cgggcccgacc cactcgtccg cgagtcgccg cgccatgcc ccttagactc cggcgtcatc 60
 tccggcctca acggcgtggg gttcatctac aagcccaccg gcgcggccat cgcatacggg 120
 ctcgacaaga agtcgagcag cgacggcgag aagaacgtcc tcactcttca cctcggcggc 180
 ggtacctttg acgtctcgt cctcaccatc gaggagggca tctttgaggt caaggccacc 240
 gccggcgaca cccacctggg aggcgaggac ttcgacaacc ggctcgtgaa ccacttcgtc 300
 caggagttca agaggaagaa caagaaggac atcactggca accccagggc gctccggcga 360
 ctgaggaccg cctgcgaaag ggctaagagg acgctctcct ccaccgcca aaccaccatc 420
 gagatcgact cgctctatga gggca 445

<210> 16438
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K1-D11

 <400> 16438

 cgggcagacc cactcgtccg cccacgcgtc cgttctgatg ttgatagctt cgtttgaagg 60
 aaagggtgaga gcagaatcgt ggggagaatc tggattgtg tcctggctgt tgttttcgcg 120
 atcaaaacga tgtcgtgcc ggacattgtc tcgatattgg ataactcgaa ggagctcgat 180
 cgggttagga aagaacagga ggatattctg tcggagatca acaagcttca caagaagctt 240
 caagcaactc ctgaagtggg tgagaagcct ggggataact cattggcaag gctgaaattt 300
 ttgtatactc aagcaaaaga actttcagaa agtgaagcaa gtattttcaa cttactgata 360
 aaccaaattg atgccctact gcctacgggt ccacaagggc aaacacgaag aagaatagga 420
 aaaggtaatg agcagaaaag gaaacgagt 449

<210> 16439
 <211> 463

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-F9

 <400> 16439

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 ttagtgagc tcttattcaa ggaacaccac caggagaggc ttacatgggtg gcggcttttg 120
 gagaacctgt aggtggtggc aaacctacat gggaggctgc ttggcgagct gcttttgaaa 180
 gatttcagta taaaaaatca cctcatatca gtttagagac tcccacaagt tcacttatag 240
 gtagttctgt gcctgagaaa gctagcaaag gtacagcaat tacaactgtg ccagctagca 300
 aaaaagttgg taaaactgtg gcgccagcac atcctgctgt aaccctacac tctccaactt 360
 ctgattttcc ttttggtagt tctacattta atctgcaacg aggcactcat ctggatttta 420
 gccaggcagt atcaccattt gcgtataatt cacacatgag aca 463

<210> 16440
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-C8

 <400> 16440

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 ggcagacaac tgtatggtca gccgattaaa gtcaattggg catatacaag tactccgagg 120
 gaggacacat caggtcattt taatattttt gttggggatc tttgcccgga agtcaactgat 180
 gctactttgt ttgcattttt ctctggatac tctacttgct cagatgctag ggttatgtgg 240
 gaccagaaaa caggacgata cagagggttt ggttttgttt ctttcaggaa ccagcaggat 300
 gctcaaagtg cgataaatga cttgaatggg aagtggcttg ggaaccgtca aattcgttgc 360
 aattgggcaa cgaaaggtgc taatgctggt gaagagaaac agattctgga cactaagggt 420
 gacctgtcaa at 432

<210> 16441
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C10

<400> 16441

tgaagacgac ctgcatgccg atgagaccat aaatatatttc gtaggaaaca attacaagac 60
ctacactttt ggtggaaaga agagcatagt cctgtcgact gcgtcctggc taggcggcaa 120
gaacgacttc cttggacacg cttatatattgt cactgggttcg ttgagcatca tcatatcgat 180
tctcttttgc ctgatccatg tgaagtaccc aaggccgcaa ggtgacccca attgcctatc 240
ctggaacagg aaaaacagca atagctaagg ggcccgcctg tacctaccat ctatgtgggc 300
gcctgtgtac caacatgaat cagtattaca catctgtatc tgaaacatgt cagacactgt 360
gccgcaaggt taatcccaga tgatgaaaag aaactgcgta caccatg 407

<210> 16442

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C7

<400> 16442

tgcgtgtttt gtgaattctg ggaccgaagc gaatgagttg gcaatgttga tggcccgggt 60
gtgtagtggg aatctcagta tggttgcgct cagaaatgca tatcatggcg gaagtgccgg 120
tacgattgga ttgactggca tgcagacgtg gaaataccca attcctcagg gtgaaataca 180
tcatgtcatg aaccctgatc cttatcgggg gactttcggg tctgatgctg cagcttatgc 240
taaggaagtc gaagaacaca taacttatgg aagttcagga agggttgcag gcttcattgc 300
acaaacattc caggggtgtg gaagtgtgc taaactaact cctgaatacc taaagttagc 360
taatgacatt 370

<210> 16443

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-C8

<400> 16443

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gagacaaggg gaaatgggga agggagcgca agggagcgat gcggcggcgg cgggcggcga 120
ggtggaggag aacatggcgg cgtggctggt tgccaagaac accctcaaga tcatgccctt 180
caagctcccc cccgtcggcc cttatgatgt ccgcgtgcgc atgaaggcag tggggatttg 240
cggcagcgat gtgcactacc tcagggagat gcgcacgcgc cacttcgtcg tgaaggagcc 300
gatggtgatc gggcacgagt gcgcgggctt ggtcgaggaa gtgggcgccg gcgtgacgca 360
cctgtccgtg ggcgaccgcg tggcgctgga gccgggcgtc agctgctggc gctgccgnca 420
ctgcaagggc gggcgggtaca acctgtgcga 450

<210> 16444

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A3

<400> 16444

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cattgcgaag gatactcatg gttatgttgg tgctgatctt gctgcccttt gtactgaagc 120
tgctcttcaa tgcattcgtg agaagatgga tattatagat cttgaggatg agacaataga 180
tgctgagata ctgaactcta tggctgtctc aaatgatcat ttcaagactg cacttgggac 240
aagcaaccca tctgctctgc gtgaaactgt tgttgaagtg ccaaagtctt cttgggaaga 300
tattggtggc ctggaaaatg ttaagaggga gctacaggag actgttcaat atccagtgga 360
gcatccatag aaaaattgaa aagtttgcac g 391

<210> 16445

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F8

<400> 16445

tggaccacaga cgtagttcag ctagcctctt ctaccttctt ctcccacccc gcctgcgcgc 60
tgccgcgaga gctcgttctt gatggggaac tgcgccggcg tggaggggaa cgccgagatc 120

aacccttctc tcaagtcccc caattctctca gggaccgtcg gttctaagag cgtcagcaag 180
aacgcggccg acaccggcac ctteggcacc aagacgtccg gctcgtcgtc gtcggtgccg 240
tcaacccctc gtacggaggc ggagatcctg gagtcgtcga atgtccgcaa gttcagcttc 300
ggcgagctca aaggctccac gaggaacttc aggccggaca gcctgctcgg ggagggggggc 360
ttcgggtccg tgttcaaggg gtggatggat gagcgcacgc tcgcg 405

<210> 16446
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-054-Q1-K1-H9

<400> 16446
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ccagaatcca aacgcaacaa aaacctgtgg gtgcggcaaa tctttcgca ctggaaagga 120
gaccgaggcc gcggcaacca cttgcaacaa ctagagtaga gaaatattgt tagctaaacg 180
tgatgtggca tgttgtatag cttgctcatg ttgaagccct gtggctacac cacagataca 240
taaagaggca tagttcaaag gaattacacc attaccaatg gcctaattca gattttcttg 300
tttggtgatc attccgaagt ccttaaactt gtggtatggt ctctcaaat gcattgtatt 360
ttcaggtatc caaacttgtc ttgacgtgtc gtccaggcct acaagtacta aaattttatt 420
tntacatddd taaacttgg 439

<210> 16447
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G12

<400> 16447
tgaacacttg attgattcag taggtagcta gctagctgaa tcacaatgga tcctaccgag 60
ttccgtccgt ccagtagcca cgacacgacg gtgacgacga cgaacgctgg cgctcctgtg 120
tggaacgaca acgaggcgct gactgtgggg cctcgcggtc ccatcctgct ggaggactac 180
cacctgatcg agaaggtggc gcacttcgcg cgggagcgca tcccggagcg cgtggtgcac 240

gcgcgcggtg cctacgccaa gggcttcttc gagtgcaccc acgacgtgac gtcgctgacg 300
 tgcgccgact atctgcgcgc gctctgcgtg cggacgcccg tgatcgtgcg cttctcgacg 360
 gtgatccacg 370

<210> 16448

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D4

<400> 16448

tggtgctcga ggcaacgatg atctgcatag acaattcggg atggatgcgg aacggcgact 60
 acgtccgctc gcggttccag ggcgagggcg atgccgtcaa cctcatctgc ggcgccaaga 120
 cccagtcgaa cccggagaa acggtaggcg tgatgacaat ggccgggaag ggtgttcgcg 180
 tgcttgctac tcccaccagc gacctcgga agattctcgc ctgtatgcac gggttagaag 240
 ttggcgctga ggcaaacttg gctgcggcaa tccaggttgc ccagcttgct ctaaagcatc 300
 ggcagaacaa gaggcagcag ccagaggatt atagctttca atggaaggct cggtaaagtc 360
 caccaggaag gtttggagac cattgggaag aagcctgaaa aggaccatgg tgctc 415

<210> 16449

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-E7

<400> 16449

tgctaagtgt attcggttact tccctactca ggctttgaac tttgcattta aggactactt 60
 caagagggtg ttcaacttca agaaggatag ggatggctat tggaagtggg ttgctggcaa 120
 cctggcctct ggtggtgctg ctggtgcttc ctctttgttt tttgtgtact ccctggacta 180
 cgcgagaaca aggttggcta atgacgcgaa ggctgccaa ggaggaggtg aaaggcagtt 240
 caatgggctt gtcgatgtct accgcaagac actcaagtct gatggatttg ctgggcttta 300
 ccgtggattt aacatctcct gtgttggaat catntgttat cgtggctctg actttgggct 360

ctatgattcc atcaagccag ttgtccttac tggcaacctn caggacaatt tctttgccag 420
 tttcgctctg 430

<210> 16450
 <211> 344
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-A2

<400> 16450

tggacgagta ccccgtcacc actgagctcc atatccgctg cgtaaacaatg atagctcacc 60
 tgttgaacgc gccgatcaag gaggacgaga ccgctatagg ggtcggaaca gtgggatcct 120
 cggaagcgat catgctngca agtctaacgg tcaagaagga aatgccgaac caggaggaag 180
 gaccagggaa accgggttac aaaaccaaca ttggtaacgg tgccaacggg caagtctggt 240
 tggaaaaggt tgcaagggat tttgaagtgg aacttaaaga aggtaagcta tcagaagggt 300
 actacgttat ggaccccgctc aagggtggtg aaaagggtgga ccag 344

<210> 16451
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D7

<400> 16451

tccgttcgca caagccagac ctcttcgcgc cggcaatgga caggctcggc gcgaatgggg 60
 cgaactcgtg cccgctgacg ccgcttggtt tcttgagcg ctcggccacc gtcttcggcg 120
 attgccactc cgtcgtgtac caccgacgg tcttcacctg gtcccagaca caccggcgat 180
 gcctccgcct cgcctccgcg ctcgtctctc tcggcatcaa ccgcggcgac atcgtgtccg 240
 tgctgttgcc caacgtgccg gccatgtacg agatgcagtt cggagtggcc atgagcggcg 300
 ccgtgtctaa caacatcaac atgcgcctgg acgcgcgcac ggtcgccgct ctgctccgcc 360
 actccggctc caagctcgtc ttcgtggacc cggcgtctct aacgcttatc agagacgtcg 420
 ctgagcag 428

<210> 16452
<211> 260
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-009-Q1-K1-E1

<400> 16452

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acaaaacggc caggggatat catggctttt tccttttact gatggcacat gcacctcttg 120
gctggtcaga tactttggca tacattgtgt taccagttct tcttgtcatt ncacagtaca 180
tatctactca agtaaggcag gcaccacaga gcaatgatcc taaccaacaa ggggctcagg 240
ctgtgacaaa ggagttacca 260

<210> 16453
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-021-Q1-K1-H11

<400> 16453

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aaggggagtg gcttaaggta tcccagctca ggcccatggt ggaagcgag gacccaacg 180
ccaaggcagt ggacaacctg acgtgctgc ggttcctgcg cgcgcgcgac caccgactgg 240
acaaggcctn cgccatgttc ctcaagttcc tcaagtggcg gagggaggcg gcgcccggcg 300
gtcccggtcc ggaggacagg taaggaggag ctggcgagcg gcaagctgtg catgggcggc 360
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cgtgacatgg c 431

<210> 16454
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A11

<400> 16454

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ctgaaagcac ataagcaata catggttatg ggatcgtgtt cgagtttagcg gtggtgcata 120

tggaggatgtt tgtgattttg acacccattc aggagtgttc tcatatttat catatcgtga 180

tccaaactta ctgaaaacac tagagggtcta tgatgagaca gcaagattcc tcagagagct 240

agaattggat gatgatgcac tcacaaaagc tattattgga accataggcg atgttgacgc 300

ctaccagcta ccagatgcta aaggttacag cagcctaata agatatttgc tgggcatcac 360

ggatgaagaa cg 372

<210> 16455

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A12

<400> 16455

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gcggctgcgg ctgccagcca ccgccgccgg ttcattctacc gccgccggtg catctgccac 120

ctccggttca cctgccacct ccggtgcac tcccaccgcc ggtccacctg ccgccgccgg 180

tccacctgcc accgccggtc catgtgccgc cgccggttca tctgccgccg acaccatgcc 240

actaccctac tcaaccgccc cggcctcagc ctcatcccca gccacacca tgcccgtgcc 300

aacagccgca tccaagcccg tgccagctgc agggaaactg ctgcgttggc agcaccgccga 360

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<210> 16456

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E2

<400> 16456

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accctcgcgt cttcttcgac atgaccgtcg gcggcgcccc ggccgggccgg atcgtgatgg 120

agctgtacgc caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacgggcg 180
 agaagggcgt gggcaagtcc gggaagcgcg tccactacaa gggctccacc ttccaccgcg 240
 tcatccccga gttcatgtgc cagggcgggc acttcacccg cggcaacggc accggcgggc 300
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<210> 16457
 <211> 457
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-021-Q1-K1-A4

<400> 16457

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 gaagcgtcgt gcatccgcac gtacctgcag cagatggcag gtaagtaggt caacaaattg 120
 attcctctcg tggtcgttgt gtgattttga cgcgacatgc gttgcgtgca tgtatctctc 180
 tgctctctcg gtgcctcggg ggtagcagcg tcggctctcca cggcgagctg cgaccctctc 240
 agcggcgccg atgaggtgga gtgccgcgac gaggcgggcg cgctgaggct taagatgggtg 300
 ttcgctcgtg ccatactcgt cgcaggcgcg accggcgctc cgatcccgct cgtcggccgc 360
 cgctgccacg ggcattggagc ctncctncnc tncctncaccg gtggggcggt cgtgctcgta 420
 aaggcgttcg cggccggngt gatcctggcc acgggct 457

<210> 16458
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B10

<400> 16458

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 tcaggcgggt gtgtctttgc tcttggtctt ttctccctga agaactcttc aaggttctat 120
 gtcggcatat ggtacaacaa cattccccgag cgcacatacg tgtggattgc caaccgcgac 180
 aacccaatta ccaccaatgt gcttggaag ctagttttta ccaacagttc tgaccttgct 240

ttgttagact ccacaggccg caccatctgg acgacgacaa acaactatac cgcaggagga 300
 ggcggtgaaa ctgcttccat cctgctcgat tcggggaact tggttatccg gttgccaaat 360
 ggcactgaca taatgga 377

<210> 16459
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E10

<400> 16459

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 ccctacaaat tctgggcttg gaagcgaatt ttctacgtat ggcgttgcca tctaattattg 120
 gcaataccct tcctaaccctc ctgcacttt ccttgtagag taacatgttc cacggtcçaa 180
 tcccagcatc gctaggaaac gcttcaatcc tcgtggtatt agacttcaca tctaacagtt 240
 tcaactggaaa tgtacctagt tccttgggaa atctaacta cctgaacttc ctaaaactag 300
 aacagaacaa ccttgaagca aaaaacaatg aaggctggga attcatagat gcattggcca 360
 aatgtacgta tctacaatac attttattat ctgacaatc 399

<210> 16460
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-H9

<400> 16460

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 tccgcgtctg cctcgtgtcc gccgtggcca gcgcgtcttt caccaacgac acctgctgcy 120
 tgggtgctcac cgagttcatc ctcaagctgg cgcggcagaa caacctgccc ccgcagccgt 180
 tcctgctggc cctcgcctcc agctccaaca tcggctcttc cgccacgccc atcggaacc 240
 cgcagaacct cgtcatcgcc gtgcagagcg gcacacctt cggccagttc ctcgctggcg 300
 tcttcccggc catgatcgtc ggcgtcgccg ccaacacctg catcctgctc tgctacttct 360
 ggaggtgcct ctccgcgccg gagaaggacc aggagggcgg cgccgncgnc gcggggcccg 420

acgtcgccgt cgtggccgac gagga

445

<210> 16461

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D9

<400> 16461

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gggggcggcc tgtccgagtt ctccgggctc aggagctccg cgtcgctgcc catgcgccgg 120
aatgccacct ccgacgaatt catgtccgcc gtctccttca ggaccacgc ggtcggcacg 180
agcggcgggt cgcggggggc gccgacggag gcgaagctga aggtggccat caacgggttc 240
ggccgcatcg ggcgcaactt cctgcggtgc tggcacgggc gcggcgacgc ctcgcccctc 300
gacgtcatcg ccatcaacga caccggcggt gtcaagcagg cgtcccacct gctcaagtac 360
gactccacgc tcggcatctt cgacgccgac gtcaagcccg tcggcgacaa cgccatcttc 420
gtcga 425

<210> 16462

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-F6

<400> 16462

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ctgtccgagt tctccgggct caggagctcc gcgtcgctgc ccatgcgccg gaatgccacc 120
tccgaagact tcatgtccgc cgtctccttc aggaccacgc cgtcggcac gagcggcggg 180
tcgcggcggg cgccgacgga ggcgaagctg aaggtggcca tcaacgggtt cgcccgcatc 240
gggcgcaact tctgcggtg ctggcacggg cgcggcgacg cctcgcccct cgacgtcatc 300
gccatcaacg acaccggcgg tgtcaagcag gcgtcccacc tgctcaagta cgactccacg 360
ctcggcatct tcgacgccga cgtcaagccc gtcggcgaca acgccatc 408

<210> 16463
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-C9

<400> 16463

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agttctccgg gctcaggagc tccgctcgc tgcccatgcg ccggaatgcc accttcgacg 120
acttcatgtc cgccgtctcc ttcaggaccc acgcggtcgg cagcagcggc gggccgcggc 180
gggcgccgac ggaggcgaag ctgaaggtgg ccatcaatgg gttcggccgc atcgggcgca 240
acttcctgcg gtgctggcac gggcgccggc acgcctcgcc cctcgacgtc atcgccatca 300
acgacaccgg aggcgtcaag caggcgtccc acctgtcaa gtacgactcc acgctcggca 360
tcttcgatgc cgacgtcaag cccgtcggcg acaacgcat c 401

<210> 16464
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B7

<400> 16464

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ttctccgggc tcaggagctc cgcgtcgtg cccatgcgcc ggaatgccac ctccgacgac 120
ttcatgtccg ccgtctcctt caggaccac gcggtcggca cgagcggcgg gtcgcggcgg 180
gcgccgacgg aggcgaagct gaaggtggcc atcaacgggt tcggccgcat cgggcgcaac 240
ttcctgcggt gctggcacgg gcgcggcgac gcctcgcccc tcgacgtcat cgccatcaac 300
gacaccggcg gtgtcaagca ggcgttccac ctgtcaagt acgactccac gtcggcatc 360
ttcgacgccg acgtcaagcc cgtcggcgac aacg 394

<210> 16465
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-042-Q1-K1-A10

<400> 16465

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gggggcggcc tgtcgcgagt tctccgggct caggagctcc gcgtcgctgc ccatgcgccg 120
gaatgccacc tccgacgact tcatgtccgc cgtctccttc aggaccacg cggtcggcac 180
gagcggcggg tcgcgggggg cgccgacgga ggcgaagctg aaggtggcca tcaacggggt 240
cggccgcatac gggcgcaact tctgcggtg ctggcacggg cgcggcgacg cctcgcccct 300
cgacgtcatc gccatcaacg acaccggcgg tgtcaagcag gcgtcccacc tgctcaagta 360
cgactncacg ctcg 374

<210> 16466

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-F11

<400> 16466

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caggagctcc gcgtcgctgc ccatgcgccg gaatgccacc tccgacgact tcatgtccgc 120
cgtctccttc aggaccacg ctgtcggcac gagcggcggg ccgcggcggg cgccgacgga 180
ggcgaagctg aaggtggcca tcaatgggtt cggccgcatac gggcgcaact tctgcggtg 240
ctggcacggg cgcggcgacg cctcgcccct cgacgtcatc gacatcaacg acaccggagg 300
cgtcaagcag gcgtaccacc tgctcaagta cgactgcacg ctcggcatct tcgatgccga 360
cgtcaagccc gtcggcgaca acgccatctg cgtcgacggc aaggtcatca aggtcg 416

<210> 16467

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-E7

<400> 16467

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tcggcatggg caagattaag atcggaatca acggcttcgg aaggatcggc aggctcgtgg 120
ccagggtcgc cctccagagc gaggatgtcg agctcgtcgc cgtcaacgac cccttcatca 180
ccacggacta catgacctac atgttcaagt acgacaccgt ccacggccac tggaagcaca 240
gcgacatcac actcaaggac ctccaaaacc ttcttttcgg tgaccagccc gtcaacgggt 300
ttggcatcaa gaacctgaa gaaatcccgt ggggtgaggg ttgcccttaa tatgtcctgg 360
agtccaacgg cgttt 375

<210> 16468
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-C11

<400> 16468
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cacctccgac gacttcatgt ccgccgtctc cttcaggacc cacgcggtcg gcacgagcgg 180
cgggtcgcgg cggggcgcca cggaggcgaa gctgaagggt gccatcaacg ggttcggccg 240
catcgggcgc aacttctcgc ggtgctggca cgggcgcggc gacgcctcgc ccctcgacgt 300
catcgccatc aacgacaccg gcggtgtcaa gcaggcgtcc cacctgctca agtacgactc 360
cacgctcggc atcttcgacg ccgacgtcaa gcccgtcggc gacaacgc 408

<210> 16469
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-A12

<400> 16469
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ccctgcagag cgaggatgtc gagctcgtcg ccgtcaacga ccccttcatc accacggatt 180
acatgacctc catgttcaag tacgacaccg tgcacggcca atggaagcac agcgacatca 240

ccctcaagga ctccaagacg cttctcttcg gcgagaagcc ggtcacgctc tttggcatca 300
 ggaaccccgga ggagatcccc gtgggtgagg ctgggtgctga gtatgtcgtg gaggccaccg 360
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<210> 16470

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-C4

<400> 16470

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 ggatcggcag gctcgtggcc agggtcgccc tgcagagcga ggatgtcgag ctcgtcgccc 180
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 acggccaatg gaagcacagc gacatcacc tcaaggactc caagacgctt ctcttcggcg 300
 agaagccggt caccgtcttt ggcatcagga accccgagga gatcccgtgg ggtgaggctg 360
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<210> 16471

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E9

<400> 16471

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 ccagggtcgc cctccagagc gaggatgtcg agctcgtcgc cgtcaacgac cccttcatca 180
 ccacggacta catgacctac atgttcaagt acgacaccgt ccacggccac tggaagcaca 240
 gcgacatcac actcaaggac tccaagaccc ttctcttcgg tgacaagccg gtcaccgtct 300
 ttggcatcag gaaccctga ggaaaatccc gtgggggtgag gctggcgctg agtatgtcgt 360
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caagaagggtg ttatctctgc cccaa

445

<210> 16472

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C11

<400> 16472

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cggcaggctc gtggccaggg tcgccctgca gagcgaggat gtcgagctcg tcgccgtcaa 180

cgaccccttc atcaccacgg attacatgac gtacatgttc aagtacgaca ccgtgcacgg 240

ccaatggaag cacagcgaca tcgccctcaa ggactccaag acgcttctct tcggcgagaa 300

gccggtcacc gtctttggca tcaggaaccc cgaagagatc ccgtgggggtg aggctggtgc 360

tgagtatgtc gtggagtcca accgtgtctt cactgacaag gaccaggctg ctgcaca 417

<210> 16473

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B9

<400> 16473

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cttcaaggcc gacgtcaaga tcgtggacga cactaccatc agcgtcgacg gcaagcccat 360

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<210> 16474

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F2

<400> 16474

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gcagaggctg gacttcgccg acttctccgg gctcaggccg gggtcgtgct ccgtgagcgc 180

tgccgcgcgg gaggggtcct tctccgacgt ccttggcgcg cagctcgtcg ccaaggccac 240

cggggagaac gccgtgaggg cggccgcaga ggccaagctg aaggtggcga tcaacggctt 300

cgcccgcatc ggccggaact tctccggtg ctggcacggc cgcgaggact cggcgatcga 360

cgtcgtcgtc gtgaacgaca gcgaggcgt caggaacgcg 400

<210> 16475

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-D9

<400> 16475

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cacggcgtgc agaggctgga cttcgccgac ttctccgggc tcaggccggg gtcgtgctcc 180

gtgagcgtg ccgcgcggga ggcgtccttc tccgacgtcc ttggcgcgca gtcgtcgcc 240

aaggccaccg gggagaacgc cgtgagggcg cccgccgagg cgaagctgaa ggtggcgatc 300

aacggcttcg gccgcacgg cgggaacttc ctncggtgct ggcacggccg cnaggactcg 360

ccgatcgacg tcgtcgtcgt gaacgacagc 390

<210> 16476

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F4

<400> 16476

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 cacctccgac gacttcatgt ccgccgtctc cttcaggacc cacgcggtcg gcacgagcgg 180
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 catcgccatc aacgacaccg gaggcgtcaa gccaggcgtc cacctgctca aggacgactc 360
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<210> 16477
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-025-Q1-K1-B12
 <400> 16477

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 aatgccacct ccgacgactt catgtccgcc gtctccttca ggaccacgc ggtcggcacg 180
 agcggcgggt cgcggcgggc gccgacggag gcgaagctga aggtggccat caacgggttc 240
 ggccgcatcg ggcgcaactt cctgcgggtg tggcacgggc gcggcgacgc ctgccccctc 300
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<210> 16478
 <211> 301
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-046-Q1-K1-B12
 <400> 16478

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 cctccgctc ttcgagtacg ctcaggagaa gcagttcgcc attcccgcga ttaacgtcac 180
 ctcttctctc accgtcgtgg ctgccctcga ggccgctcgc gacaaaaagt ccccatcgtc 240

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c 301

<210> 16479
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-F10

<400> 16479

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cgtctgcttc aggaccacg cggtcggcac gagcggcggg ccgcgggcggg cgccgacgga 180
ggcgaagctg aaggtggcca tcaatgggtt cggccgcacg gggcgcaact tcctgcggtg 240
ctggcacggg cgcggcgacg cctcgccctt cgacgtcacg gtcacaaacg acaccggagg 300
cgtcaagcag gcgttccacc ttgctaagta cgactgcacg ctcggcatct tcgatgccga 360
cgtcaagccc gtcggcgaca acgccatctg cgtcgacg 398

<210> 16480
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F1

<400> 16480

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ttttgacgac ttgatgttct acgttgca 148

<210> 16481
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F3

<400> 16481

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 ttgacatcgt catcgagggc accggagtct tcgtcgacgg ccccggcgcc ggcaagcaca 120
 tccaggccgg cgcaagaag gtgatcatca cggctccgc caagggcgcc gacatcccga 180
 cctatgtcgt cggcgtcaac gagggcgact acgaccacag cgtcgcggac atcatcagca 240
 acgcgtcctg cagaccaac tgcctcgcgc cattcgtcaa gatcttggac gaggagtctg 300
 gaattgtcaa ggggaccatg acgacgacgc actcgtacac cggcgaccag aggctgctgg 360
 acgcgtccca ccgcgacctc cggcgggccc gcgcggcggc gctgaacatc gtgccgacga 420
 gcacgggcg 429

<210> 16482
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-A9

<400> 16482
 ctctgggtccg tggccatggc gtcgtccatg ctctccgcta ccaccgtgcc actccagcag 60
 gggggcggcc tgtccgagtt ctccgggctc aggagctccg cgtcgtgcc catgcgccgg 120
 aatgccacct ccgacgactt catgtccgcc gtctccttca ggaccacgc ggtcggcacg 180
 agcggcgggt cgcggcgggc gccgacggag gcgaagctga aggtggccat caacgggttc 240
 ggccgcatcg ggcgcaactt cctgcggtgc tggcacgggc gcggcgacgc ctgcccctc 300
 gacgtcatcg ccatcaacga caccggcggg gtcaagcagg cgtccacact gctcaagtac 360
 gactccacgc tcggcatctt cgacgccgac gtcaagcccg tcggcgacaa cgccatctnc 420
 gtcgacggca aggtcatc 438

<210> 16483
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-F6

<400> 16483

cgcttagatt tcagtaata cttggacatc agtgatgaag ttaagtttgc atggagaatc 60
cagcgggaca tggcagagcg tgggcacagc cttgaaagca tcaaggccag tatcgaggcc 120
aggaaaccag attttgatgc ctttattgat ccgcagaagc agtatgctga tgctgtgatt 180
gaagttctgc cgaccagtt gattcccgac gacaacgaag gaaagggtgct gcgtgttaag 240
ctcatcatga aagaaggggt gaagaacttc aaccgggttt atctctttga cgaaggatcg 300
accatcagct ggggtgccttg tggaagaaag ctacatgct cttaccctgg catcaaattt 360
tcctatggcc cggacactta cttcggaac gaggtatct 399

<210> 16484
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G1

<400> 16484

accttgtgaa agggcggggt ggtgctcttc ttcgtgagaa gatggttgag gcagcatcgg 60
acaagtttat tgttattggt gacgagacaa aactagttga tgggttagga ggtagtggtc 120
tagccatgcc agtggaagtt gtgcagttct gctggaagta caaccttgta agattgcagg 180
aactgtttaa ggaggaagga gtcgaggcaa agctaagggt tgaaggcgac aagccctatg 240
ttactgacaa ctcaaactac atcgtcgatt tatacttcaa gacgccaatc aaggatgcgt 300
tggcagcagg acaggaaatt gcagctctgg aaggagttgt tgaccatggg ttgttcttga 360
acatggcgag ttcagtgatc attgctggaa cggacggtgt cagtgtcaaa acgaagtgag 420
tttttgagtt gc 432

<210> 16485
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-G2

<400> 16485

ggaggtggca ggatgcgact ggattcatgt cgatgtcatg gacgggcgct ttgtgccaaa 60
catcacaatt ggacccttgg ttgttgatgc tctgcgtcca gtgactgatc ttccgttgga 120

tgtacatctg atgattgtgg aacctgagca gcgagtcccc gattttatca aggcaggtgc 180
 tgatattgtt agtgtccact gtgaacagac atcgaccatc catttgcacc gaacagtcaa 240
 tcagattaaa agtctaagag caaaggcagg gaattgtttg aatccagcga cttcacttac 300
 tggaattgat tatggtcctg atggtggtga cctggtgctg attatgtctg tgaatcctgg 360
 gtttgggtggc caaagcttta ttgagagtca agttaaggaa att 403

<210> 16486
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-D3

<400> 16486

gtgaaagccg tggaggtggc aggatgttac tggattcatg tcgatgtcat ggacgggagc 60
 tttgtgcaa atatcacaat tggacctttg gttgttgatg ctctgcgtcc tgtgactgat 120
 cttccattgg atgtacatct gatgattgtg gaacctgagc agcgagtccc tgattttatc 180
 aaggcaggtg ctgatattgt tagtgtccac tgtgaacaaa catcgaccat ccatttgcac 240
 agaacagtca atcagattaa aagtctagga gcaaaagcag gagttgtttt gaatccagcg 300
 actccactca atgcaattga ttacattctt gatgttggtg acctggtggt gattatgtct 360
 gtgaatcctg ggtttggtgg ccagagcttt atcgagagtc aagtnaggaa aattgcaga 419

<210> 16487
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-B5

<400> 16487

atcgcttacc gccccgaag cgtctcggtt cgcatagcag agctgctctt gcaacaagcc 60
 aaacaaccca gtggctgcta gccgagacag gggatagatt gagagagagg cgcgagatg 120
 gcgacgccgt cgtcgtcgtt ttgctccagc ttcgcctccc tgcggaccgc ctccatcggc 180
 ccccccggtg gcatcgctc ctccacgccc aggaaggcat tccatgtgag ggcacagct 240
 cgggttgaca aattctcaaa gactgacatc atcgtgtccc cttcgattct gtctgcaaac 300

tttgcgaagc ttggtgatca ggtaaaagct gtggaggtgg caggatgcga ctggattcat 360
 gtcgatgtca tggacgggcg ctttgtgcc aacatcacaa ttggaccctt ggttgttgat 420
 gctc 424

<210> 16488
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-013-Q1-K1-A2

<400> 16488

caacaagcca aacaaccag tggctgctag ccgagacagg ggatagattg agagagaggc 60
 gcgcagatgg cgacgccgctc gtctgtcgtt tgctccagct tcgcctccct gcggaccgcc 120
 tccatcggcc acccccgtag catcgctcc tccacgcca ggaaggcatt ccatgtgagg 180
 gcatcagctc gggttgacaa attctcaaag agtgacatca tcgtgtcccc ttcgattctg 240
 tctgcaaact ttgcgaagct tgggtgatcag gtaaaagctg tggaagtggc aggatgcgac 300
 tggattcatg tcgatgtcat ggacgggagc tttgtgccaa acatcacaaat tggacccttg 360
 ngttgtgatg ctctgcgtcc agtgactgat 390

<210> 16489
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A12

<400> 16489

agctccctca cctgcctggc acctcgatcg agggcgtgga gaagggcggg tacaccatgt 60
 ctgacaactc gaccggcaac aagcctgacc tcattgtgat gggcaccggc tccgagctgg 120
 agatcgcggc caaggccgcc gacgagctga ggaaggaggg caagacggtc cgcgtcgtct 180
 cgttcgtctc ctgggaactc tttgatgagc agtcggatga gtacaaggag agcgtcctcc 240
 ctgctgccgt cacagcgagg atcagcatcg aggccgggtc cactcttggc tggcagaagt 300
 acgtcggagc ccagggaag gccattggca tcgacaagtt cggcgcgagt gctcctgccg 360

ggacgatcta caaggagtac ggcatacccg tggagagcat cattgcagct gccaaagaagc 420
 ttt 423

<210> 16490
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D2

<400> 16490

gatcaccacc acacctctat cctgctagct aggtagctga attcggagcc agggctcgagc 60
 gaggggggtgc ggaggcgaga tggaccacgc ggcggacgcg caccggacgg acctgatgac 120
 catcacgcgg cactgtctga acgagcagag ccggaacccc gagtcccgcg gcgacttcac 180
 catccttctc tcccacatcg tctcgggtg caagttcgtc gcctacgccg tcaacaaggc 240
 cgggctcgcc cagctgatcg ggctcgccgg cgagaccaac gtgcaaggag aggagcagaa 300
 gaagctggac gttctgtcca acgaggtgtt cgtcaaggcc ctcgtcagca gcggtcgcac 360
 ctgcgtcctt gtgtccgagg aggactagga agcaacgttc gtggactcta agctgcgttg 420
 aaggtactgc 430

<210> 16491
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-H11

<400> 16491

aagaagacga gtgtcaagtg aacctgaaac tttcgggtgc actggctggt agcctgagtg 60
 tgagtgagtg atcgagctag ctgagctccg atcctcgcta gctaggatac cgccatacca 120
 caagtcttct tcacaagttt aggagtgaca gcaacaagag atcgatggcc tctgccaccg 180
 tgctcaagtc ctcttctctt cccaagaagt ccgaatgggg cgccaccagg caggccgccc 240
 cgcccaggcc gccaccgtc ttcatggctg tccgcgcctc cgctacgcc gatgagctcg 300
 tgaagaccgc gaaaacaatc gcgtcgccgg ggcggggcat cctggcgatg gacgagtcaa 360
 acgcgacttg cgggaagcgg ctgacgtcca tcgggctgaa gaacacggag gccaacccga 420

aggcttaccg

430

<210> 16492
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E6

<400> 16492

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ggaagtacac agatgagctg atcaagaccg ccaagtgcct cgcaacgccg ggcaagggca 120
tcctggcctc cgacgagtcg acgggcacca tcggcaagcg cctgtccagc atcaacctcg 180
agaacgtgga gtcgaaccgg caggcgctcc gcgagctgct cttcacggcg cccggcggtgt 240
tcgactacct ctccgggggtc atcctcttcg aggagacgct gtaccagaag acctccgacg 300
ggaagccggt cgtggacgtg ctcatcgcg gcggagtggc ccctgggatc aaggtcgaca 360
agggcacctg ggagatcgcg ggcaccgacg gcgagaccac cacgcagggc ctcgactccc 420
tgggcgcacg ctgcg 435

<210> 16493
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-F10

<400> 16493

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ggaagtacac agatgagctg atcaagaccg ccaagtgcct cgcaacgccg ggcaagggca 120
tcctggcctc cgacgagtcg acgggcacca tcggcaagcg cctgtccagc atcaacctcg 180
agaacgtgga gtcgaaccgg caggcgctcc gcgagctgct cttcacggcg cccggcggtgt 240
tcgactacct ctccgggggtc atcctcttcg aggagacgct gtaccagaag acctnccgacg 300
ggaagccggt cgtggacgtg ctcatcgcg gcggagtggc ccctgggatc aaggtcgaca 360
agggcacctg ggagatcgcg ggca 384

<210> 16494
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-F3

 <400> 16494

 cgagtgtcaa gtgaacctga aacttgccgt gtcactggct ggtatagcct gagtgtgagt 60
 gagtgatcga gctagctgag ctccgatacct agctagctag ctaggataacc gccataccac 120
 aagtcttctt cacaagttta ggagtgcacag caacaagaga tctcgatggc ctatgccacc 180
 gtgctcaagt acttcttctt tagcaagaag tccgaatggg gcgccaccag tgcaggccgg 240
 cgcgcccagg ccggacaccg tctacatggg cgtacgcgcc tactgctacg ccgatgagct 300
 cgtgaagacc gcgaaaacga tcgcgtcgtc ggggcgggtgc atcctggcga tggacgagtc 360
 gaacgcgacg tgctgtaagc ggctggcgtc catcgagctg gagaacacgg a 411

<210> 16495
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-036-Q1-K1-G2

 <400> 16495

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 acctcgatcg gccgagatgg cgacgccgaa cgggcttgcg cggatcgaga cgaccgggaa 120
 gaagaagcag gacaacggcg tgtggtacga cgacagctcg gcgccgggtgc gcgcgcagac 180
 catcgacgag ctgcactcgc tgcagcggaa gcggtcggcg cccagcacgc ccaagcggtc 240
 ggcgcccacc acgcccatac agggcggcgc cactcgccc ttcgccgtcg cgatctccga 300
 ggaggagcgc cacacgcagc agatgcagtc catcagtgcg tcggtggcgt ctctgacgcg 360
 tgaaaccggg ccgaaagtgg tcaagggcg 389

<210> 16496
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-H3

<400> 16496

ggagcgaaag tattaacaaa cattggtacc caagattggt cgctttcaca acgttacaac 60

atatatatca tatatgcatg gacaggtaca atgcctctcc agcagcacca gcaacaaggg 120

tggtagcag cagggactat aaacaacaga gtaccatccg cgttgataga tctttattac 180

tgcaaaattg atccccgcag cactaccggt agttgcggta gacgggagtg tacatgcagt 240

tctctgcata tttcaccagg tcgctggggg gaggcagacg ggtcgccaga ccgagctcgt 300

aggcttttgc agccacgggt gcagcgatgt gcgcagagat ctttatgatg ctggtgaagg 360

gtgggaagat ggaaccct 378

<210> 16497

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D9

<400> 16497

tgctcattga caacgtcgag gagttacttc caatcgtgta cactccaacc gttggcgagg 60

cctgccaaaa gtatggatcc atatttagtc gccctcaggg tctttatata agtttgaagg 120

agaagggaaa gatccttgag gtggtgaaga actggccaga gaggagcatt caggttatag 180

ttgttactga tgggtgaacgt attttggggc ttggagatct cggatgccag gggatgggga 240

ttcctgttgg taaactttcc ctttacctg ccctgggagg agttcgtcca tctgcttgc 300

tgccgatcac attggatggt ggtacaaata acgaggagct gcttaatgac gaattttaca 360

ttggcttgag acaaagaaga gccactggcc aggagtacac tgattttc 408

<210> 16498

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G10

<400> 16498

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agagttcatg tctgctgtta agcaattcta tggtgagaaa gtcctcattc agtttgagga 120

ctttgccaat cataatgcct ttgatttgct tgaaaaatat agcatgagcc atcttggttt 180
 caatgatgat atccagggca cagcatcagt ggtccttgca ggtttgtag cagcactcaa 240
 gatggttggt gggaccctgg cagagcagac ttatttggtc cttggtgctg gggaggctgg 300
 aactggtatt gcagaactta ttgctcttga gatttcgaaa cagacgaatg ctccaattga 360
 agagtgccgc aagaagggtt ggctggtgga ctcaaagggt ttgattgttg actctcgtaa 420
 aggctccctt cagccattca agaaa 445

<210> 16499

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-A5

<400> 16499

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 gtcctcggtt tgtacgcaat ccttcggtcg ctgcgaagct gatccctcgt gttcgccatg 120
 gccccagcgc tcgccgtgga aaacctcaac cccaaggctt tgaaatgtga gtatgcagtc 180
 cgtggcgaga ttgtcatcca tgctcagcgc ttgcagcaac aactacaaac acaaccaggg 240
 tctcttcctt ttgatgagat cctgttctgc aacattggga atcctcaatc ccttggtcag 300
 caacctgtga cgttcttcag ggaggttctt gctctttgtg atcatccatg cctcttgtaa 360
 aa 362

<210> 16500

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E4

<400> 16500

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 gtccgtgggg agattgtcat ccattgctcag cgctgcagc aacaactaca aacacaacca 120
 ggggtctctt cttttgatga gatcctctat tgcaatattg ggaatcccca atctcttggt 180
 cagcaacctg tgacattctt cagggaggtt cttgctctt gtgattatcc gtgcctcttg 240

gaaaaagagg aaaccaaadc attg

264

<210> 16501
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A9

<400> 16501

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acgcagtcct tccgtcgtg cgaagctgat ccctcgtgtt cgccatggcc cccagcgtcg 120
ccgtggaaaa cctcaacccc aaggtcttga aatgtgagta tgcagtccgc ggcgagattg 180
tcattccatgc tcagcgcttg cagcaacaac taaaaacaca accaggggtct ctttcttttg 240
atgagatcct gttctgcaac attgggaatc ctcaatccct tggtcagcaa cctgtgacgt 300
tctttaggga ggttcttgct ctttgtgac atccatgcct cttggaaaaa gaggaaacca 360
aatcatcggt cagtgtgat gctatttctc gagcacagca gattcttgca acta 414

<210> 16502
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-E1

<400> 16502

cgctgcgccg attcgccacg aagccgcact gttagatagg gacgcggccc gttgtcctcg 60
gctggtacgc aatccttccg tcgctgcgaa gctgatccct cgtgttcgcc atggcccca 120
gcgtcgccgt ggaaaacctc aaccccaagg tcttggaatg ggaatatgca gtccgtggcg 180
agattgtaat ccatgcttag cgcttgacgc aacaactaca aacacaacca gggctctctc 240
cttttgatga gatccttggt tgcaccattg ggaatcctaa atcccttggt cagcaacctt 300
ggacgttctt cagggaggtt cttgctcttt gggatcatcc atgccttttg gaaa 354

<210> 16503
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-A8

<400> 16503

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cctcgggcttg tacgcaatcc ttccgtcgct gcgaagctga tccctcgtgt tcgccatggc 120
ccccagcgtc gccgtggaaa acctcaaccc caaggtcttg aaatgtgagt atgcagtcgc 180
aggcgagatt gtcattccatg ctccagcgctt gcagcgacaa cgtcgaacac aaccagggtc 240
tcttactttt gatgagatcc tg 262

<210> 16504

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C8

<400> 16504

gataaatcca ggaaatccca ctggccaatg ccttagtgaa gcgaatataa aggaacggct 60
gcaattttgc taccgtgaaa acttagttct gctagcacat gaagtgtatc aacagaacat 120
ttatcaagat gaacggccat ttataagcgc aagaaagggt atgttcgaca tgggtccacc 180
aataagcagt gagcttcagg ttgtttcttt ccacactgtg tcgaaagggt actggggaga 240
gtgcggacaa cgtggtggat acttcgaaat gacaaatctt cctgccaaaga cagtagatga 300
gatctacaac gttgcatcga tagcactgag tccaaacgtt cctggggcaaa tttttatggg 360
agtaatggtt aacctacta aacctggaga tatcgtgtac ctg 403

<210> 16505

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-E2

<400> 16505

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gaaggatact atggagagtg tggtaaaaga ggaggttaca tggagattac tggcttcagt 120
gctccggtaa gagagcagat ctacaaggta gcttcagtga acctgtgctc caatatcact 180

ggtcaaatcc ttgcgagcct cgtcatgaat ccaccaaagg ttgggggacga atcatatgct 240
 tcctacaagg cagagaaaga tggaatcctt cagtcttttag ctcgccgtgc aaaggcactg 300
 gaagatgcat tcaacacgct tgaggggattt tcatggtaac aggctgaaag agcaatgtac 360
 cttttccctc agatccatct gccacataag gcaattgagg ctgctaaagc tgccaagaaa 420
 gcacctgatg c 431

<210> 16506
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C8

<400> 16506

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 aacagggtgca tatagtcaca gtcagggtat caaaggattg cgtgatgcaa ttgctgctgg 120
 gatcacctca cgtgacggat tccctgcaaa tgcagatgac attttcatta cagacggagc 180
 aagtcctggg gtccacatga tgatgcaatt actgattagg aatgagaaaag atggcattct 240
 gtgccaatt cctcagtacc ccttgtactc ggctccata gctcttcatt gtggagctct 300
 tgtcccctat taccttgatg aaaaaactgg gtgggggttg gagatctctg atcttaagaa 360
 acaactcgaa gatgctcggt caaa 384

<210> 16507
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E4

<400> 16507

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 cacctggggc tgctgtgggc cagggtgtgt tcaactgctga ggatgctgaa gcatggcatt 120
 cccaagggaa agctgctatt ctggtaaggc cggagaccag ccctgaggac gttgggtggca 180
 tgcacgctgc tgtggggatt cttacagaga ggggtggcat gacttccac gctgctgtgg 240
 tcgcacgtgg gtgggggaaa tgctgctctc cgggatgctc aggcattcgc gtaaaccgatg 300

cggagaagct cgtgacgata ggaggccatg tgctgcgcga aggtgagtgg ctgtcgctga 360
atgggtcgac tggtaggtg atccttgaa agcagccgt tccccacca gcccttagtg 420
gcgatctggg a 431

<210> 16508
<211> 440
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-018-Q1-K1-B4
<400> 16508

gtcgacggcc tgcaacgggt ggaggagtcc atgggcgcca cgctgggcga tccgcagggc 60
ccgtcctgc tctccgtccg ctccggcgcc gccgtgtcca tgcccggcat gacggacacg 120
gcgtcaacc tggggctcaa cgacgaagtg gccgccgcgc tggcgggtcaa gagcggcgag 180
cgcttcgcct acgactgctt ccgccgcttc ctgcacatgt tcggcaacgt cgccatggac 240
atgccccgct cactgttcgc agagaagctt gagcacatga aggaatgcaa ggggctgaat 300
aacgacaccg acctacggc ctctgacctc anagagcttg tgggtcagta cacggaagtc 360
tacctctcag ccataggaga gccattcccc tcagacccca tgaagcagct ggagctagca 420
gtgctggctg cggtcaactc 440

<210> 16509
<211> 366
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K2-G11
<400> 16509

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cggccgagat ggcgacgccg aacgggcttg cgcgatcga gacgaccggg aagaagaagc 120
aggacaacgg cgtgtgttac gacgacagct cggcgccggt gcgcgcgcag accatcgacg 180
agctgcactc gctgcagcgg aagcggtcgg cgcccagcac gcccaagcgg tcggcgccca 240
ccacgcccac caaggcggt gccactcgc cttcgccgt cgcatctcc gaggaggagc 300

gccacacgca gcagatgcag tccatcaatg cgtcgttggc gtctctgacg cgtgaaaccg 360
ggcccg 366

<210> 16510
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A4

<400> 16510

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cggccgagat ggcgacgccg aacgggcttg cgcgatcga gacgaccggg aagaagaagc 120
aggacaacgg cgtgtggtac gacgacagct cggcgccggc gcgcgcgcag accatcgacg 180
agctgcactc gctgcagcgg aagcggtcgg cgcgcgcgcag gcccaagcgg tcggcgccca 240
ccacgcccac caagggcgcc gccactcgc ctttcgccgt cgcgatctcc gaggaggagc 300
gccacacgca gcagatgcag tccatcagtg cgtcgttggc gtctctgacg cgtg 354

<210> 16511
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-D2

<400> 16511

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cggccgagat ggcgacgccg aacgggcttg cgcgatcga gacgaccggg aagaagaagc 120
aggacaacgg cgtgtggtac gacgacagct cggcgccggc gcgcgcgcag accatcgacg 180
agctgcactc gctgcagcgg aagcggtcgg cgcgcgcgcag gcccaagcgg tcggcgccca 240
ccacgcccac caagggcggt gccactcgc ctttcgccgt cgcgatctcc gaggaggagc 300
gccacacgca gcagatgcag tccatcagtg cgtcgttggc gtctctgacg cgtgaaaccg 360
ggccgaaagt ggtcaagggc gaccgggccg cgaagggcga ggccgtcgcg cagggcgcg 420
catcgacgcc gagggcgc 438

<210> 16512
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-013-Q1-K1-F1

<400> 16512

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gggcgccggc gagatgaaga aggggctctt cggcgtcatg cactacctca tgcccaagcg 120
cggcatcctc tcgctgcaact ccggctgcaa tatgggcaag gacggcgacg tcgccctctt 180
ctttggcctc tcaggtaccg ggaagacgac gctgtcgacg gatcacaaca ggcttctgat 240
cggcgacgac gagcactgct ggagcgacaa tggcgtgtcc aacatcgagg gaggtgcta 300
cgccaagtgc atcgacctgg cgcangagaa agagcctgat atttgaacg 350

<210> 16513
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E8

<400> 16513

gcttcacgc tcgttccctt tcgaaagccc gcgcacgcac gtcggtcgtc ccgagcagga 60
cctcgatcgg ccgagatggc gacgccgaac gggcttgcgc ggatcgagac gaccgggaag 120
aagaagcagg acaacggcgt gtggtacgac gacagctcgg cgccggtgcg cgcgagacc 180
atcgacgagc tgcaactcgt gcagcggaag cggtcggcgc ccagcacgcc caagcggtcg 240
gcgcccacca cgcccatcaa gggcggtgcc cactcgccct tcgccgtcgc gatctccgag 300
gaggagcgcc acacgcagca gatgcagtcc atcagtgcgt cgttggcgtc tctgacgcgt 360

<210> 16514
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-C3

<400> 16514

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cattccccctc agaccccaag aagcagctgg agctagcagt gctggctgtg ttcaactcgt 120
gggagagccc cagggccaag aagtacagga gcatcaacca gatcactggc ctcaggggca 180
ccgccgtgaa cgtgcagtgc atggtgttcg gcaacatggg gaacacttct ggcaccggcg 240
tgctcttcac caggaacccc aacaccggag agaagaagct gtatggcgag ttcctggtga 300
acgctcaggg tgaggatgtg gttgccggaa taagaacccc agaggacctt gacgccatga 360
agaacctcat gccacaggcc tacgacgagc ttgttgagaa ctgcaacatc ctggagagcc 420
actacaagga aatgc 435

<210> 16515

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-F9

<400> 16515

cgtcggtcgt cccgagcagg acctctatcg gccgagatgg cgacgccgaa cgggcttgcg 60
cggatcgaga cgaccgggaa gaagaagcag gacaacggcg tgtggtacga cgacagctcg 120
gcgccggtgc gcgcgcagac catcgacgag ctgcactcgc tgcagcggaa gcggtcggcg 180
cccagcacgc ccaagcggtc ggcgcccacc acgcccatac agggcggtgc cactcgccc 240
ttcgccgtcg cgatctccga ggaggagcgc cacacgcagc agatgcagtc catcagtgcg 300
tcgttggcgt ctctgacgcg tgaaaccggg ccgaaagtgg tcaagggcga cccggccgcg 360
aagggcgagg ccgccgcgca tggcgcgcca tcgacgccga gggcgc 406

<210> 16516

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G11

<400> 16516

cactcgtttc ctttcgaaag cccgcgctcg cacgtcggtc gtcccagca ggacctcgat 60
cggccgagat ggcgacgccg aacgggcttg cgcgatcga gacgaccggg aagaagaagc 120

aggacaacgg cgtgtggtac gacgacagct cggcgccggt gcgcgcgcag accatcgacg 180
agctgcactc gctgcagcgg aagcgggtcgg cgcccagcac gcccgaagcgg tcggcgccca 240
ccacgcccac caagggcggc gccactcgc ctttcgccgt cgcgatctcc gaggaggagc 300
gccacacgca gcagatgcag tccatcagtg cgtcgttggc gtctctgacg cgtgaaaccg 360
ggccgaaagt ggtcaagggc gacccggccg cgaagggaga ggcc 404

<210> 16517
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G8

<400> 16517

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ggaggccatg tgctgcgcga aggtgagtgg ctgtcgtga atgggtcgac tggtaggtg 120
atccttggga agcagccgct ttccccacca gcccttagtg gtgatctggg aactttcatg 180
gcctgcgtgg atgatgttag aaagctcaag gtcctggcta acgccgatac ccctgatgat 240
gcattgactg cgcgaaacaa tggggcaciaa ggaattggat tatgccggac agagcacatg 300
ttctttgctt cagacgagag gattaaggct gtcaggcaga tgattatggc tcccacgctt 360
gagctgaggc agcaggcgct cgaccgtctc ttgccgtatc agaggtctga ct 412

<210> 16518
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E9

<400> 16518

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atcgaggaca ttgtaagtga attatgtgct gagacgggag ccaaccagga ggatgccctc 120
gcgcgaattg aaaagctttc agaagtaaac ccgatgcttg gcttccgtgg gtgcaggctt 180
ggtatatcgt accctgaatt gacagagatg caagcccggg ccatttttga agctgctata 240
gcaatgacca accaggtgtg tcaagtgttc ccagagataa tggttcctct tgttggaaca 300

ccacaggaac tggggcatca agtgactctt atccgccaag ttgctgagaa agtgttcgcc 360
aatgtgggca agactatcgg gtacaaagtt ggaacaatga ttgagatccc c 411

<210> 16519
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-F8

<400> 16519

ggttcctctt gttggaacac cacaggaact ggggcatcaa gtgactctta tgcgcgggggt 60
tgctgagaaa gtgttcgcca atgtgggcaa gactatcggg tacaaagttg gaacaatgat 120
tgagatcccc agggcagctc tgggtggctga tgagatagcg gagcaggctg aattcttctc 180
cttcggaacg aacgacctga cgcagatgac ctttgggtac agcagggatg atgtggagaa 240
gttcattccc gtctatcttg ctcagggcat cctccaacat gaccccttcg aggtcctgga 300
ccagagggga gtgggcgagc tgggtgaagtt tgctacagag agggggccgca aagctaggcc 360
taacttgaag gtgggcattt gtggagaaca cgggtggagag ccttcctctg tggccttctt 420
cgccaaggct gngctggatt acgtttct 448

<210> 16520
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-005-Q1-K1-B6

<400> 16520

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ctttccgatg ggtgccaggc tatggtattg atcgtaccct gaattgacan gagatgcaag 120
nccccgtgcc attctttgaa gctgctatag caatngacca accagggntg ttcaagctgt 180
tcccangaga taatggcttc ctcttggttg aacaccacag gaactggggc atcaagtgaac 240
tcttatccgc caagttgctg agaaagtgtt cgccaatgtg ggcaagacta tcgggtacaa 300
agttggaaca atgattgaga tccccagggc agctctggtg gctgatgaga tagcggagca 360

ggctgaattc ttctccttcg gaacgaacga cctgacgcag atgacctttg ggtacaacag 420
ggattatgtg gggaa 435

<210> 16521
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-H7

<400> 16521

atcgagggcc atgtgctgcg cgaaggtgag tggctgtcgc tgaatgggtc gactgggtgag 60
gtgatccttg ggaagcagcc gctttcccca ccagccctta gtggtgatct gggaaactttc 120
atggcctggg tggatgatgt tagaaagctc aaggtcctgg ctaacgccga taccctgat 180
gatgcattga ctgcgcgaaa caatggggca caaggaattg gattatgccg gacagaacac 240
atgttctttg cttcagacga gaggattaag gctgtcaggc agatgattat ggctcccacg 300
cttgagctga ggcagcaggc gctcgaccgt ctcttgccgt atcagaggtc tgacttcgaa 360
ggcattttcc gtgctatgga tgga 384

<210> 16522
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E8

<400> 16522

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attgagatcc ccagggcagc tctggtggct gatgagatag cggagcaggc tgaattcttc 120
tccttcggaa cgaacgacct gacgcagatg acctttgggt acagcagga tgatgtggga 180
aagttcattc ccgtctatct tgctcagggc attctccaac atgaccctt cgaggtcctg 240
gaccagaggg gagtgggcga gctggtgaag cttgctacag agaggggccg caaagctagg 300
cctaacttga aggtgggcat ttgtggagaa cacggtggag agccttcctc tgtggccttc 360
ttcgcaagg ctgggctgga ttacgtttct tgctcccctt tcagggttcc gattgctagg 420
ctagctgcag c 431

<210> 16523
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F8

<400> 16523

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 ctctgcctac gactccttcc gccgcttctc cgacatgttc ggcaacgtcg tcatggacat 120
 cccccgctca ctgttcgaag agaagcttga gcacatgaag gaatccaagg ggctgaagaa 180
 cgacaccgac ctacaggcct ctgacctcaa agagctcgtg ggtcagtaca aggaggtcta 240
 cctctcagcc aagggagagc cattccccctc agaccccaag aagcagctgg agctagcagt 300
 gctggctgtg ttcaactcgt gggagagccc cagggccaag aagtaagga gcatcaacca 360
 gatcactggc ctacagggga ccgtcgtgaa cgtgcagtgc atggtgttcg gcaacatggg 420
 gaacacttc 429

<210> 16524
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E3

<400> 16524

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 atgccggaca gagcacatgt tctttgcttc agacgagagg attaaggctg tcaggcagat 120
 gattatggct cccacgcttg agctgaggca gcaggcgctc gaccgtctct tgccgtatca 180
 gaggtctgac ttccaaggca ttttccgtgc tatggatgga ctcccgtga ccatccgact 240
 cctggaccct cccctccacg agttccttcc agaagggaac atcgaggaca ttgtaagtga 300
 attatgtgct gagacgggag ccaaccagga ggatgccctc gcgcgaattg aaaagctttc 360
 agaagtaaac ccgatgcttg gcttccgtgg gtgcaggctt ggtatatcgt accctgaatt 420
 ga 422

<210> 16525

<211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-D6

 <400> 16525

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 ctacgacgag cttgttgaga actgcaacat cctggagagc cactacaagg aaatgcagga 120
 tatcgagtgc actgtccagg aaaacaggct gtggatgttg cagtgcagga cagggaaacg 180
 tacgggcaaa agtgccgtga agatcgccgt ggacatggtt aacgagggcc ttgttgagcc 240
 ccgctcagcg atcaagatgg tagagccagg ccacctggac cagcttctcc atcctcagtt 300
 tgagaacccg tcggcgtaga aggatcaagt cattgccact ggtctgccag cctcacctgg 360
 ggctgctgtg ggccagggtg tgttcactgc tgaggatgct gaagcatg 408

<210> 16526
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-F6

 <400> 16526

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 cctcaggggc accgccgtga acgtgcagtg catggtgttc ggcaacatgg ggaacacttc 120
 tggcaccggc gtgctcttca ctaggaaccc caacaccgga gagaagaagc tgtatggcga 180
 gttcctggtg aacgctcagg gtgaggatgt ggttgccgga ataagaaccc cagaggacct 240
 tgacgccatg aagaacctca tgccacaggc ctacgacgag cttgttgaga actgcaacat 300
 cctggagagc cactataagg aaatgcagga tatcgagtgc actgtccagg anaacaggct 360
 gtggatgttg cagtgcagga caggggaacg tacgggcaaa agtgccgtga agatcgccgt 420
 ggacatg 427

<210> 16527
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D5

<400> 16527

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ctcaggcatt cgcgtaaacg atgcggagaa gctcgtgacg atcggaggcc atgtgctgcg 120
cgaagggtgag tggctgtcgc tgaatgggtc gactgggtgag gtgacacctg ggaagcagcc 180
gctttcccca ccagccctta gtggtgatct gggaactttc atggcctggg tggatgatgt 240
tagaaagctc aaggctctgg ctaacgccga taccctgat gatgcattga ctgcgcgaaa 300
caatggggca caaggaattg gattatgccg gacagagcac atgttctttg cttcagacga 360
gaggattaag gctgtcaggc agatgattat ggctcccacg cttgagctg 409

<210> 16528

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H4

<400> 16528

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attacattgt tagtgaatta tgtcctgaga ctccatccaa ccaccaagat tccctcgctc 120
gaattgaaaa gctttcacia gtaaaccgga tgcttggtt acgtgggtac aggcttggtg 180
tatcataccc tgaattgaca gagatgcaag cccgtaccat ttttgaagct gctatagcaa 240
tgaccaacct atgtgttcaa gtgttcccag acataatgct tactcttggt ggaacaccac 300
agtaacttgg gcatcaagtg actctta 327

<210> 16529

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C12

<400> 16529

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acctcgcgcg agacgagcaa gcccaagtat ggccggagca gcagcagccg ccgtggcgctc 120

cgggggtctcg gcccggccgg ccgcgccgag gagggtctct gcgggacgcc gcgctcggct 180
 gtcggtgggtg cgggccgcga tatccctcga gaaggcgag aaggcgtaga cgggtgcagaa 240
 gtccgaggag atcttcaacg ccgccaagga gctgatgcct ggaggtgtta actcgccagt 300
 ccgagccttc aaatctgttg gtgggcagcc agtagttttc gactctgtaa agggttctcg 360
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 cat 423

<210> 16530
 <211> 207
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-G7

<400> 16530
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 ggacggcctg gcgtcccgcg agggcgncta ctaccaacaa ggcgcgccgg tccgccaaagt 120
 gccccaccgt ggcaagaatc cttaacggcc cttccaagtt cgccgtcaag gaggccccctt 180
 ggggcttggg acgttaggcc gcctttt 207

<210> 16531
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-052-Q1-K1-D11

<400> 16531
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 ctctcatcc tcccattgct tctactctc ccgccagcag gcggcctccc tacgatgccg 120
 cctctccttc ctggccagc ccagaaggcc cggcagggtc acggcccatg cgccggccgc 180
 taaggacgtg cgggtgcatgg cggccgtgga cactactgct gcgtccacgg cggcggcgga 240
 gacgagcccc aagtcgagca gctacgagat cgtgacgtc acgacgtggc tgctgcaaca 300
 ggagcggacc ggcgcgatcg acaacgagat gaccatcgtg ctggccagca tatccacggc 360

gtgcaagcag atcgcggcgc tggcgcagcg cgcgcccatc tacaacctga cgggcgttca 420
gggcgcgcgtc 430

<210> 16532
<211> 125
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-019-Q1-K1-D2

<400> 16532

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ctggtacntg cctgccctca aaggcgcgg catcaagtac gacgaccccc gtgctctacc 120
tcgac 125

<210> 16533
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K2-A4

<400> 16533

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cgattgccag taaaaaaaaa agaaatataa tagaaaaata tgggacaaaa aataaatcca 120
ctcggtttca gacttggtac aaccctaaat caccattcct tttggttcgc acaacaaaaa 180
aattattctg aaggtctaca ggaagataaa aaaatacggg attgtatcaa gaactatata 240
caaaagaata ggaaaaaagg ctcgaataga aaaatggaat cagactcaag ttctgaagta 300
attacacata tagaaattca aaaagaaatc gatacaatcc acgtcataat ccatatggga 360
ttccccaact tattaaagan aaaggagca atcgaagaat agaggaag 408

<210> 16534
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K2-A7

<400> 16534

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cgggcgaaga tggttgacat acagaagcgg cgcgtgcggc tgctgctctt catcacggcc 120

gtcctcgcgc tcagcatcac cgctgagaag ttcagggaaac ttggttgaaa ggaggctgca 180

tcaaagagtg gtcaattcac attcatgaac tgctttgaca tgggctctgg cagccttgcg 240

tgactgcaa aggaggggtgt caagttgtac gtcaacaaca tccgaagtgc acacttgga 300

atggtgcggc aacgagccat ggagaaagct ttagctgatg ctgtgacgga aggcctaaca 360

cctagtgaag cagccaaaca agctcagaag attagtgcac aagcgactaa acttgctgct 420

cgtcaagc 428

<210> 16535

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B4

<400> 16535

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taatgtgtta ttacatgatt aagaatagca atcttctgca cttggatata acagattccc 120

ctgccttga aaaaaaata cttcgaattg gtgtggtgcc ataacatcaa gtacaattcc 180

ccccatctta acaaattatt gtgcgtgttt caaatgcttt gacgatggta ttcaattcat 240

gtgaatacca ccacataaga aagttgggag gttcatgat catctatctg gctagaaact 300

ggcgtcctct ggttgtcgcc gcctcaagaa at 332

<210> 16536

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B6

<400> 16536

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gtctgcaagg cccagaagca gcaggccgcc gcggcggaga gcgacgtgtc gcgccgcgcc 180
 gcgctcgcgc tcctcgccgg cgtcgcggcc gtcggcgcca aggcgagccc cgccgccgcc 240
 gcctacgggg aagcagccaa cgtgttcggc aagaccaaga agaacacgga cttcatctcc 300
 tacgtcggcg acggcttcaa gctgctgac ccgtccaagt ggaaccccag caaggaacgg 360
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<210> 16537
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C1

<400> 16537

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 ctctgccgcc atcacgccc ctctcttcac ggccgcgccc gctcgcgcag tggtcagcag 180
 gaggtccttc accgtgcgtg cctctctccg caaggccact gccaccgccg ccgtggccgt 240
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 aggcgacggc gggctcgtct tcgagcccag ccagttcacc gtcaaggccg gcgacaccat 360
 caccttcaag aacaacgccg gcttcccgca caacgtcgtg ttcgacgaag acgaggtgcc 420
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<210> 16538
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C10

<400> 16538

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 tgctaagtat gaattgcccc agtatgtttt gagtgaacca accaacctga tccgagacag 180
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gccgtcaaat tgggtcccttg cttgtggttaa ctggagtgcc tatagtaacc ttcagatttg 300
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 tgcgtaccct catctattgt tcttggttct actgtaaaca tgagtctgct tagaattctt 420
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<210> 16539

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C12

<400> 16539

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 acggtttcgg aaggatcggc aggctcgtgg ccagggtcgc cctgcagagc gaggatgtcg 180
 agctcgtcgc cgtcaacgac cctttcatca ccacggatta catgacgtac atgttcaagt 240
 acgacaccgt gcacggccaa tggaagcaca gcgacatcgc cctcaaggac tgcaagacgc 300
 ttctcttcgg ctagaagccg gtcaccgtct ttggcatcaa gaaccccgaa gagaatccca 360
 tgtgtgaggc tggagctgag tatgtcgtgg agtccaccgg tgtcttcact gacaatgaca 420
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<210> 16540

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C3

<400> 16540

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 caacgtcaac ggcaacggca aggctgctcc ttctgatatg gatgtgcctg atatcaagtt 180
 caccaatctc ttcatcaact gctagttcgt taactcctcc ttcttcaaga cattttatac 240
 cattgaccca 250

<210> 16541
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D7

<400> 16541

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 aagggttaca ctcagtttac tcctcattat atcacatggt attgtccaga agctttttgtt 120
 gatagcaagc aatgcaaadc acagtgcac c aatcatggga gatattgtgc accagaccca 180
 gatcaggatt ttagccaagg gtatgatgga agaaatgttg tgggtcaaaa cctacatcag 240
 atttgtgtat tcaagattgc taatgagact ggaaagccat ggctgtggtg ggattatgtg 300
 catgatttcg cacttaggtg tccaatgaag gataagaaat acaataatga ctgtgccccat 360
 gatgttatca aatcacttgg atgggacatc gagaatttaa acaagtgtg 409

<210> 16542
 <211> 479
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-E12

<400> 16542

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 gccgccggcc tcaccgccat cgtcactggg gcgtccagcg gcatcggcgc ggagacggcg 180
 cgaacgctgg cgctgcgcgg ggcccacgtc atcatggccg tcaggagcct tcccgtgcc 240
 caggccgtca aggacgccgt cctcgcccag gcgccggggg ccaagctcga cgcatggag 300
 ctcgacctct cgtccatggc ctctgtccgc gctttcgcgt cccaattcat cgacaggggt 360
 ctccccctca acatccttat caacaatgca ggagtaatgg caataccttt tgcgctttca 420
 aaggatggaa ttgagatgca gtttgcaact aatcatgttg ggcatttnct gctcacaca 479

<210> 16543

<211> 411
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-F4

 <400> 16543

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 acgacacgac ggtgacgacg acgaacgctg gcgctcctgt gtggaacgac aacgaggcgc 180
 tgactgtggg gcctcgcggg cccatcctgc tggaggacta ccacctgatc gagaagggtg 240
 cgcacttcgc gcgggagcgc atcccggagc gcgtggtgca cgcgcgcggg gccttcgccca 300
 agggcttctt cgagtgcacc caccgacgtga cgtcgtctgac gtgcgccgac ttctcgccgc 360
 cgcccggcgt gcggacgcnc gtgatcgtgc gcttctcgac ggtgatccac g 411

<210> 16544
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K2-G10

 <400> 16544

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 ccgtgcccc cgacgacctg aagggtaccg agctccgct tggctgtccg ggggtccggtt 180
 cgccggaccg ccgtgttgtg gctgccaccg caaccacct ggacctgtc ccggctaagg 240
 gcgccaagcg cgggttttct gacgaggcgc cgacgccatc gcccggtgca gcttccggga 300
 agggaaagaa ggtagcggaa gaggaggacg acaagaaggt tgcagcgacg ccgcagccgg 360
 tcgcaaaagc tcaggtggtg ggatggccac caatccgaag ctaccgcaag aacacgatgt 420
 ctacca 426

<210> 16545
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G2

<400> 16545

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acacgtgaaa tttctggtga atgaacgacc atggaagaag caactattta gcagtagaat 120
tggttcaaata caagaccccg tatagcagag gattggaatt gaaaacacaa gcaaacattg 180
aattgaaacc atctctgtgt tatcacatgt ttagcctcac cacatgcac ttctttctac 240
tagcatgcgc acaagcaccg gtctatgttt gcctcaccac atataggcct ggcaagattc 300
gcttatatta cgcattgctg agctaaaaaa atgcatgacg tgagaagctc tccaagcgga 360
catggggatg aacaacatgt cagcaca 387

<210> 16546

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-001-Q1-K2-G6

<400> 16546

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ctaggcagat ctgagttagc cggcggatcc gatccgtgcg cgtgcgcagt gtgtgtgtgt 120
gtgtgtgtgt gtgtttgtgt cgggtggagag atggccacag cttacgtccc catggcgagc 180
caggtgatga agagcagcct cgtcgtgcac tcaaggccaa ggggcctgtc aggcgctggt 240
gcgctaacaa ggcggcccgg cgggttcacc gtcaaggcca tccagcccga gaaggcaacg 300
taccaggtgg tgcagcccat caacggcgac cct 333

<210> 16547

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G7

<400> 16547

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ttcaattctt ccaactccgc cgcttcgcct cggctccgtcc gccgccccca tggcgtccgc 120
cgccgccacg accacctccg cccccgcccc gaacctcaat ccccttagta tcaacatcaa 180
gctcccccca tggctcagcg ggtgcgctg ccccttcacc ttcgtctgcc cgcccccgcc 240
cccgctccg cctctgccgc cgctctctcc cccgctgcc cctacggaac ccgtgggtccc 300
acggtcgcgg aggttaccaa gcctgcgggg gaccacggag tacgatagcg aagagggcgt 360
gtttgtgaac aaggtgtcgt gcaagcttgc 390

<210> 16548
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H10

<400> 16548
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ctattaatcc acccactct ctcccgccc cgtgccacc gcctctacc ccgcgagatc 120
cggctccgct tccagaagct tctggaacgc ccgttccatg agcgtctgat cggccgccgc 180
catgggctgc gctggatcca cccccaaagt cgacgagaac agcaagaaac tgaaaaggcc 240
taaggcttgg aagcataccc aaccaattac accggcacgg ctgaaacaga tgcgtgatga 300
gttctgggac acggtccgc actacggagg caaaaagag atctgggatg ctctgagggt 360
tgccgcggag tccgatctag cccttgaca gaccatcgtg gacagtgtg gaatcatcgt 420
gtcgaaccct gacatgacgc 440

<210> 16549
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H3

<400> 16549
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tgcaacatca atgctaagtt tgaggctaaa gctattgaac ttattgttac aacatatcag 120
gctgcattgc tactactgtt taatggatct gacaggctta gttattctga gattgtaaca 180

caattaaacc tgtcagatga tgatgtaatg cgtttgctcc attctctttc ttgtgcgaag 240
 tacaatatcc ttaacaagga accggctagt agatccatct ctcccaatga tgtttttgag 300
 ttcaattcaa agtttactga cagaatgag 329

<210> 16550
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-A10

<400> 16550

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 tttgtctcgc tcctgtttat ctatgcaact gctggcatgc atgcaaaaga cgcctcggga 180
 gataagaccc ctgttattct gctagtagt atgcatgcat gtgcacgatc gatgggcgcg 240
 atggtcatat catccgttgg ttcagtagta gggctggatc ttccagcgct ggttgtcgcc 300
 ctgcgaccac ttccagaagc acgacgttgg tgccg 335

<210> 16551
 <211> 345
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-002-Q1-K2-A2

<400> 16551

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 agccctgcag cccaaccgtg gaggttcttg aaggcgggtg atcccttcta gaaccttctc 120
 gagatgcaga gcgccgcggc tttccggccg tgccccactc ggctgctgcc agcctcgccc 180
 gatcgggatg gcaagtgccg ccagcgacag gtgtcatgca gcgcggccgg ggatgctgtg 240
 gcggccccga aggcggaaga aggaggcggg ctcatgaaga cgctgtggct cggctcgctc 300
 ttcggcctct ggtacctgtt caacatctac ttcaacatct ataac 345

<210> 16552
 <211> 367

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-002-Q1-K2-A8

 <400> 16552

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 gacccctttg cagcgggtata tagctatgat gaaccgtcag gaaacggacg agaggctttt 120
 ctacaagctt ttaattgata atgtggtgga gctgcttctt tttgtttaca caccaactgt 180
 aggtgaggcc tgccagaagt atgggtccat ctttggacga ccacagggtc tgtatgtcag 240
 cctgaaggac aaggggaagg tctagaagt tctaaggaac tggccacata ggaacattca 300
 agttatctgt gttactgatg gtgagcgaat cttgggactt ggaaacctgg gttggcaagg 360
 aatggga 367

<210> 16553
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-002-Q1-K2-B9

 <400> 16553

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 agcaatggct gcctccacca tggcgatctc ctccacggcg atggccggta ccccatcaa 120
 ggtgggctcc ttcggcgagg gccgcatcac catgcgcaag accgtgggca agcccaagg 180
 ggcggcgctc ggcagccctt ggtacggccc cgaccgcgtc aagtacctcg gcccttctc 240
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 cgggctgtcc gccgaccccg agaccttcgc caagaaccgc gagctggagg tgatccactc 360
 ccgctgggcc atgctcggcg cgctcggctg cgtcttcccc gagctgctct cccgcaacgg 420
 cgtcaagttc ggcg 434

<210> 16554
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-002-Q1-K2-C6

<400> 16554

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ataattcaca acaagtacat tagcattttt atttgacatt tgagttcaaa tggacatagt 180

atcatctggt tgcgccatga cagaggtttg aacttgccaa cttggacatg catatctttt 240

ggtcagaata aaactgcaga cctttgtttg atggtattgc tttcatctaa tcacactttt 300

ggccactgtg ggctgactac ctctaattgtg ctgaaaacta actgcatgcg actagcaact 360

actgatggtt tctctgaact tcct 384

<210> 16555

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D11

<400> 16555

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aaaagagat ctctgcattc ttggatcaga gggaaaggac caaagtgccg gctgatactt 120

cagtttctgc tccagaagct gaaagctatc aggaggaagc tgctccagaa gatgagggaa 180

gtagtgaaga attgagctct gtgtcagaag tagcaactga tgtttctcct cctgtatctg 240

atgcctcctc tcaggtggga attcaggatt ctacttctgt ggcaaatgct gctgaggacc 300

aaactgtagg atctgaaagt tcacctacaa ttagtggtga actgtcctcc aacgggaccc 360

cagatagctc tatttgtgtc tcagtttcag aaactgcaga taaacctact gaacctgaag 420

aatcttcagc ggtagaaaga g 441

<210> 16556

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E6

<400> 16556

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acgactattg acaaaatatg gaacattaca acaaacgtct cagagacaga catctatgaa 120
accatgcata attttctcat aaatacatga ccaacaaacc atctctttgt caatttgggt 180
gacttttagct gctctcatga tgtgcccgtg aaactgagaa aactgtacct aagcacctgc 240
ttgccataca ccaacatgt ttctgctcat ttgtcgcaag gggcagatag ttaatctgtg 300
aaggtgataa cgatgccagc tgacttaact ggtgcctgtg gtcacatcta gtcagatgac 360
tccaaaccat agtcaagcat ttctttatgt tt 392

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<210>      16557
<211>      430
<212>      DNA
<213>      Zea mays

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<223>      Clone ID: LIB3060-002-Q1-K2-F11

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cgtgccgtcg tcgtccgctt tcggcgaggg ccgcgtgacg atgcgcaaga cggcggggaa 180
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ctgggacacc gcggggctgt cggcggaccc ggagacgttc gccaagaacc gggagctgga 360
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cgcccgaac 430

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<210>      16558
<211>      480
<212>      DNA
<213>      Zea mays

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<223>      Clone ID: LIB3060-002-Q1-K2-F4

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<400>      16558
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caacccacc cagctctgcc ggtcccgcgc tgcgctgggc aagccagtga aggggcttgg 180

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cctgggggatg gggcggggagc gcgcaagcca gcgagcatc acgtgccagg cggcgagcag 240
catcccggcc gaccgcgtta cgcacatgga gaagcggaag ctgatgaacc tcctgctcct 300
gggcgccata tcgctgcccc ccgtcagcat ggtcgtcccc tacggcgcct tcttcgtccc 360
cgccggctcc gggaacggcg gggcggggac ctacgccaa gacaagctgg gcaacgacat 420
cacggtggag gagtggctca acacgcacgg tcccaacgac cgtacgctcg cgcaggggct 480

<210> 16559
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-G11

<400> 16559

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ccctttcaag aaaggccaag ggaatggctc ttgcatagt gttggtggat gaaattgatg 180
ctgttgaaaa ggcaagaggt acaggtattg gtggtgaaaa tgatgaaagg gagcagactc 240
tcaatcaact actaactgag atggatggtt tcgagggcaa cactggaatt attgttattg 300
ctgccactaa ccgggctgac atattggatt ccgctttact tagaccctgg cgttttgata 360
gacaggtgtc tggtcacgtt cctgatgtac gtggaaggac agagattcta aaagtgcattg 420

<210> 16560
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-G12

<400> 16560

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aatttcaggt tctgaatttg tggagatgtt tggtggtgtt ggagcttcca gagttcgtga 120
ccttttcaag aaggccaagg agaatgctcc ttgcatagt tttgttgatg aaattgatgc 180
tgttggaagg caaagaggta caggtattgg tggtggaaat gatgaaaggg agcagactct 240
caatcaacta ctaactgaga tggatggttt cgagggcaac actggaatta ttgttattgc 300

tgccactaac cgggctgaca tattggattc cgctttactt agacctgggc gttttgatag 360
acaggtgtct gtcgacgttt ctgatgtacg tggaaggaca gagattctaa aagtgcattg 420

<210> 16561
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-002-Q1-K2-G2

<400> 16561

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tgttgctagc tttagagataa gttgtgagga gcagctttcg atgctggatt cagttcactt 180
gaatgttata ctctgaaagg caactgaact tgtagacaga cacctgcagt cgattcttgc 240
agctgataaa ataacgcaca aagttgaggg gcaactatca aagtcgcaga aagaatttct 300
actgctccag cagatgatgg ccataaaaga agaacttggg gatcacgatg acgactatna 360
tgatgttgct gctgttgaaa gaaagatgca gaatgcatga atgcctgcta atatttggaa 420
gcatgc 426

<210> 16562
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-H3

<400> 16562

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gggtggttagg acaatgggtgc ttcttgatac agggcctggt cacaggctag ctgctattgt 120
tgttgatagc tttagagatag gttgagacga acagctatcg atgctggatt cagttcactt 180
gaatgtgata ctctaaaggg catctgaact tgtagaccga cgcctgctga cgattcttgc 240
agc 243

<210> 16563

<211> 474
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-002-Q1-K2-H5

 <400> 16563

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 ggcgagggcg gtggaggagt ggtaccggca gatgcgcac atcacgcgct cctacctcac 120
 cgccgctgtc gtcaccaccg tcggctgcac cctcgaaatc atttcgccgt atcacctgta 180
 ccttaaccgg aagctcgtgg tgcagcacta cgagatttgg cgccctcgtca ccaacttcct 240
 ctacttccgc aagatggatt tggattttct attccacatg ttctttcttg cacgatactg 300
 caagcttctg gaggaaaact catttagagg aagaactgct gactttttttt acatgctctt 360
 gtttggtgct actgtcctaa ctggcattgt tctgatcgga gggatgatac cttacatttc 420
 tgagacattt gccagaattc tgttcttgag caattcattg acatttatga tggt 474

<210> 16564
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-A12

 <400> 16564

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 ccgccgtggc ggtggccgcg cctcgcgcc gcggcacctt aaacgtggtc aggtccgccc 180
 aggacgaccg ctgccaggag cccgccacgc tagcagcaac cgaagccagg cccgtctgcg 240
 actgacgccg agccggcatg ctgcggctg c 271

<210> 16565
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-B3

 <400> 16565

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gagtaagaga agatcgacaa gagattggcg gtaatggact cctcggagct gcacatactg 120
gccttgacaga ggggtgaagca ggtggagccg gagaacgcga gcaagatcct cggctgcatc 180
ctcctggagg aacccgacaa ccaggatatg ctgcagctcg cctacggcaa cgacgccgag 240
gtgcacgcca agatcagcca cgccaaggcc atgctggacg ccatcgctcg gtgctgctcc 300
tcctcgccgg ccttcggcta ccactactgg ccgtcggcgc ccaataaggc gcaggcagag 360
gagtacgcgt tgcagccgca gcactacagt ggcggaaggt gctactacgc ctctgagaac 420
gcgctcatct acaatggcgg gggg 444

<210> 16566
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-003-Q1-K1-B6
<400> 16566

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caagtccctc tctctgtcca agtgcacga gatcaaggac atatgctctg cacctgcaca 120
gcttccagaa tgcaaatcgc ttcagtcctt ggccatcaag gattgctcag gcttcaccga 180
caccagcctc cctatgttgg catgttctgc cctcagctgg agaacatcaa tatgagtggc 240
cttagtgtag tcaccgacaa tggcttcctt ccactaatga agagctcgaa aagtgggctg 300
gtcgacattg atttgaacag ctgcgagaat ctcacagaca tggttgtttc tgcttggtt 360
aaggccatga cgcttcctt gccacctcag ttctgagga tgcacanga tctatgatgc 420
anacctgttc gccatctgtg agagc 445

<210> 16567
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-003-Q1-K1-B8
<400> 16567

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agaaggacta ctctatggca acagcggatg ttgtggacgc cgatgtgagg gaactcgtgg 120
agaaggccta ctctagagca aggcagataa tcaccacgca catcgacatc ctccacaagc 180
tcgcccagct cctgatcgag aaggagaccg tggacgggga ggagttcatg agcttggtca 240
ttgacggcca ggccgagctg attgtcgctt gagatgtcac aaggcttgcg gtgcgtatgc 300
ttttcagtgt tttgtgtcag agcgagcaat cacaaagcaa tggaaagccc agcttgtagg 360
aaccacatcg atgtatagta gttgatacgc atgtactgac ttaattga 408

<210> 16568
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-C12

<400> 16568

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ctcctggacg tgcccacggg tcgactcgac gatatgggcc cggggctgga cgcctgcggc 180
cgggggagcg gcctggcaga ggggctacag cgcagagggtg aagactgagg acgagctgcg 240
ggtgcggtac ctggaggagg agaaccgagg aatttgtgtg cttggaataa acagagccta 300
tgccaaaaat tcattaagta aaaatcttat aaaaatgctt tcaaaagctg tggatgcttt 360

<210> 16569
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-003-Q1-K1-D11

<400> 16569

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agcagcagca gcagtaattc atagtgggcg gtgtgatagc agcagtgaga tcgaggagag 120
gatggagggtg ttcattccacg aggactacgt gaacaagcgc aacgagctga ggagggagca 180
gagggcgccg gaactgcaga ggctgcaggt ggagagcaac cccgacgcgt cccgggaggg 240

gctggcaagc cgggagagcc cgaggacgcc ggctcagtgc ctgacgccga ccggcgcgtc 300
gccgtccagc ttcagatccc cgacttcgag gagcacgctg cagtcgccgg ccgcagcggc 360
ggggcaggct gctggttggc cgtcggagca tcgccgnctc tacgactgcc tcaagccgta 420
ctag 424

<210> 16570
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-003-Q1-K1-D12

<400> 16570

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aaatagctga gaagaagcta ataagccaat cagtataaa gcattgcatt gatttatttt 120
ttcagtaccc ttataataac tttttgcatt atcatgttga gaacattatt gtttcttgcc 180
ttgagggttaa aagaaatcaa ttgattgacc atattcttaa tgactgtggc cttgttggtgta 240
aagtccttgc cgctgaaaaa agttcttctc tggcagtggg gtctaattggg ccaacattac 300
catcagaagg gaaagaacct ncaagaattg ggaatattgg gcacataact cgaatagcga 360
ataagctcat tcaatttgga aatagtaaca gcattgatcca gagtcacttg cangagaaca 420
gtgagtgggc tgtatggcaa atagatgttc tgatc 455

<210> 16571
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D3

<400> 16571

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<210> 16572
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D8

<400> 16572

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tgccagcgcc ctgcttgccg gcggtgccat ggcccaggag gtgctgctgg gcgcaggcga 180

cggcgggctc gtcttcgagc ccagccagtt caccgtcaag gccggcgaca ccatcacatt 240

caagaacaac gccggcttcc cgcacaacgt cgtcttcgac gaagacgagg tgccgagcgg 300

cgtcgacgcc accaagatct cgcaggaaga gtaccttaac gcgccaggcg agacctactc 360

cgtcaccctc accgtgccgg gaacctacgg cttctactgc gagccgcac aaggaaccgg 420

aatggtcggc aagatcaccg tcaactaatt aaagctagct atcgatcgat at 472

<210> 16573

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E11

<400> 16573

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atgtctggct aggacggtct taaggctctc ggcttcgagg tgatccctgt cgtgctctgt 180

agtggcttgg cgctgaacat gaaaggagtg agttacgagt acgtgaagga cgacatatcc 240

aacgagagtg agcttctgct caagttcaac ccggagcaca agatggtgcc cgtgctcata 300

cacaacggta agcccatctg cgagtcactc gacatcatgc agtacgtcta cgagctgttc 360

gccggtcggc cgatcctagc aactgatcac tacgagcgca caagtggtcg attacgagct 420

gcctacg 427

<210> 16574

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E12

<400> 16574

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 atcactgtgt gactgcggcg acaaggccat cgcggaagg agcctcctgg acctcctgcg 120
 ccagggtgtc acgttcgggc tctccctggt gaagctggac atccggcagg agtcggagcg 180
 gcacaccgac gtgatcgacg ccataccacg gcacctcggc atcgggtcgt accgcgagtg 240
 gcccgaggac aagaggcagg agtgggtgct gtcggagctg cgaggcaagc gcccgtgct 300
 gcccccgac cttccccaga ccgacgagat cgccgacgtc atcggcgctg tccacgtcct 360
 cgcgagctc ccgcccga gcttcggccc ctacatcatc tccatggcga cggccccctc 420
 ggacgtgctc gccgtggagc ttctgc 446

<210> 16575
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E6

<400> 16575

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 gcaataacgt atacatgaac accctttggc tcgctcctgt ttatctatgc aactgctggc 120
 atgcatgcaa aaaacgcctt gggagataaa acccctgtta ttctgctagt acgtatgcat 180
 gcatgtgcac gatcgatggg cgccatggtc atattatccg ttggttcaat agtagggctg 240
 gatcttccag cgctggttgt cgcccttgca ccacttccag agcacgacat tgggtgc 296

<210> 16576
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-G11

<400> 16576

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 ttctcaattc ctatgaatt ccttcctatc gaattcctat agtaaaattc ctataggata 120
 gaacgtacac aggggtgtaca cattatatat gaatgaaaca tattcattaa ctttaagcata 180
 ctcttttttt tatttaatga gttgatatta attaaatatt ttttttttta gatttttgca 240

aagggtttcat ttacgcctaa tccatatacga gtagaccctg tcgttgtagag aattcttaat 300
 tcatgagttg tagggaggga cttatgtcac cacaaacaga aactaaagca agtggttgat 360
 ttaaagctgg tgtaaggat tataaattga cttactacac cccggagtac gaaaccaagg 420
 atactgatat cttggcagca ttccgagtaa ctctc 456

<210> 16577
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-G8

<400> 16577

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 cagcggcgca gctccagcgc ccaaccccg ttcctcctc cgttcctcg gcgtcgcttct 180
 cgctcgcgag gctcgggtgc gccttcccgc tcgcgcctc cgcgcctctg gcttccgcac 240
 cgccgtcgcc gtcggccagg gagacacagc cgacctcct ctccgccagg tggcctgccc 300
 cgcccatgcg tccctgggga acccgtggcc actccaggcc gaccacgcgc gttctctgca 360
 ctgctgccgg cagcgtccaa agagagggga aagaactgct agttcagcat ttgcttggtg 420
 gtgaaaagga tttcaggc 438

<210> 16578
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-G9

<400> 16578

ggatttcccg gatcgacca cgcgttcgca ataaggctat tagacatgca cattccatct 60
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 cgtttaacca gtctcaaggc atcaatgtta ctgggatgtg cgaagatttt ctccaattag 180
 ctattggcca ggagtgatcg ttgagccttt cactagagct ctctggacag aacaataatg 240
 caggaacagt aggacagctt gatcatatgg atacaagtta ttctggataa cctgacattc 300

attgcaaacg ttaatgatgc ctcaaatatt gatgccacag ggtttcctaa ccccaaaaagc 360
tcacaaatct acctgctgca tatgtttccat gaaattctta tgaaactcaa ggagaaatct 420
cgtca 425

<210> 16579
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H12

<400> 16579

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tccgaccgag cgagcaagga gagacacgag ggcgactgag gccgtcgcac actccttctg 120
tgcgatccgt acgtagcctg ctacctagca atagcaaccc gatcagccaa tcattgccgt 180
gttcaccaac tccgtttccc tattacctag atagaccagg ccagatgctg tctgcctcaa 240
cggatcgaca cgacttgagg gatggaggac tgagaccgtc gattagagtc tgagacagaa 300
gccgatgcaa caccggagcg actagctgta tgagatgtac atcatcattg acacggatcc 360
ctgcatcgat gacagcgtgg acatcctgat ggca 394

<210> 16580
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H8

<400> 16580

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ccttgaacaa ggtgcaaatg tcaggtccaa taatgccgag aggttaacat taccagtcca 120
agggccacta aggaaattgt tcgctgacat gttatgtcac cagaatattt acttaccctg 180
tacatcattg caagaggcaa atgataacag gaaggaagtc aggggttgaat ccagtcaaga 240
aactgttagt aatggtttcc ataggccaaa gacaggagag tctgtgattt ccattgaaaa 300
tggggagtcc ataaatgatg cccagacaca agaaattact caagcaataa tgccaactgg 360
ttcttctgta agtgataaag atgcagaatc acctgttatt ggagacaatg gggca 415

<210> 16581
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-A5

 <400> 16581

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 cggtcctcaa cgtctctgctc ctccgatcgc catgaccgac gctctcgtcc tcatctaacc 120
 gtcgcatcac cggcgccttc acgagcccga accgaccggg ctttccatgc ctgcgttctg 180
 tgcgtcgact cagccttgcg agggcggggtg cagcgcagtc gccgggcgat ggccgcgagg 240
 acgagtgggg gccggagccc gagggcggggt ccgctgtcac agcggccgca gcggcgagg 300
 cgccgggagc gagagaggtc acggagctca gggctcgagt caaggacgcg c 351

<210> 16582
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-B6

 <400> 16582

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 attggtggca acaggcactc atttgaagat gaacctgggc acacccgagg tccacatagg 120
 aggcggcatt caccaccaca tggctggctt atgagagata cggacattga cgaattctac 180
 ggaagagaga ttccagagta taggctggcg gcccgttgac aaatagaaga tctcccagat 240
 agcatgatgg acgacagggtt ttatatgccg tattcccata gacaccgtgg ccaagggtgat 300
 catgggttga ttcacagaga caga 324

<210> 16583
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-004-Q1-K1-B9

<400> 16583

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gaaaaaagaa ttttgatcaa atcaatagaa ggaaggatcc cttacctgat ttgaatttca 120

tcttccttta aataggatat gctctaagtc ttcccatact ttcctataat gactgcaacg 180

attttctcca ttttgogaat tcttatttta tttgaagtat attactatca tatacattat 240

ctaaatcgat ccacttttaa taaaatagaa aaaatcgaaa gaaaaaaaaa aaagaaagag 300

taaataataa aacaagatat tctgtttcat aattctgaaa tagagttctt ntttttagta 360

ttactcctca ttaggatgta ttatattaat catcctattt taatatatat taatcatcct 420

attttaatag gtttctaate aattagtaat 450

<210> 16584

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D11

<400> 16584

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aattttgatc aaatcaatag aaggaaggat cccttacctg atttgaattt catcctcctt 120

taaaataggat atgctctaag tcttcccata ctttctata atgactgcaa cgatttttctc 180

cattttgcca attcctattt tatttgaagt atattactat catatacatt atctaaatcg 240

atccacttta aataaaatag aaaaaatcga aagaaaaaaa aaaagaaaga gtaaataata 300

aaacaggata ttctgtttca taattctgaa atagagttct ttttttttagt attactcctc 360

attaggatgt atatattaat catcctattt taatatatat taatcatcct attttaatta 420

ggttctaate caattagtag taagtatttt cttttttatt taataagctc t 471

<210> 16585

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D7

<400> 16585

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cctactcgtc ctccaccacc gacgtcacgg ggctccccag taatggacag cgggcgtcgt 120
cctccttcct cagcgggaag acgctgctga gacaggccga ggcgggcccg ccgctcgttcg 180
ccgtgcgcgc cgcagcggac cccaacaggc cgatctgggt ccccggcagc acccctacgt 240
cgtggctgga cggcagcctt ccctgctact tcggctttga tccctggggc ctgggggtctg 300
acccggagag cctgc 315

<210> 16586
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F7

<400> 16586

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gtatccatcg tctcgctcgg gccgtccctc ccgcgtcccc gttcgaaggt gcggtggccg 120
gcaggcgatc gatttgattc gacatgaatt ccgagtacca ctaccttttc aaactgctgc 180
ttattggtga ttctgatgtt gggaaatcat gcttgcttag cagatttgca gacgatgctt 240
atttgagacg ctatttcagc gcacttgggg tt 272

<210> 16587
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F9

<400> 16587

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cttctctagt gtacccttca ctgactctgg gttacatggg ccaagctgct tatctgtccc 120
agcaccataa ccttgacgca agctaccaga tcgggttcta cattgcagtt cctgagtgtg 180
tacggtggcc tgtgctggtg ctggccatct tggcgtccgt ggtgggcagc caggccatca 240
tcagcgggac cttctccatc atcaaccaga gccagtctct gagctgcttc cctaggggtga 300
aagtcgtgca cacgtctgac aaagtcatg gccagatata catccctgag gtcaactgga 360

tcctcatgat cctctgcgtt gcttgcaactg gtgggtttccg taacaccaag cacatgggga 420
acgcgtcttg cttggccgtg atcacggtga tgctggtgac cacgtg 466

<210> 16588
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G12

<400> 16588

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gattatatgg aaaaagaaga agcttaagta tgctgtcttt atgaacctaa aagggaaaat 120
tgctttgata aatttaaaaa tcctggagaa aagttaattt aatcacatat ttgagcaga 180
aactatcatt tacttttaaat 200

<210> 16589
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A8

<400> 16589

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tgatttagct tactctgcca ttctgatctg cagaggatga tccaaaaagg atctttcttct 120
catattatac attgctatca ctgtgcatgt gctcactg attaggtata cctggaacaa 180
agacctctta atgcaaagga aaatggtatg gatagtatct accatgcaca ttgtacaagc 240
caggaccgca tcactactaa agggcaatac cacaactgat acatgggttac aacacgtctc 300
tcaaacatag taccataag tagatccaca cacagctatt gcacatgact actatgactt 360
ccatggtatt caacaaggaa ttgaacctaa catttaggat 400

<210> 16590
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B11

<400> 16590

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ggccctcggc ctgctgctag cgtcctctgtg cgctgccgcc ggcccggccg ccgcgcagaa 180

ctgcggctgc cagcctaact tctgctgcag caagttcggc tactgcggca cgaccgacga 240

ctactgcggc gacgggtgcc agtcggggccc gtgccgctcg ggccggcggc gcggcggcgg 300

cggaggcgga ggcagtggcg gtgcgaacgt ggctaactgt gtcagcgacg cgtttcttcaa 360

cggcatcaag aaccaggccg ggagcgggtg cgagggaag aacttctaca cccggagcgc 420

gttcctgagc gccgtcaacg cgtacccggg ct 452

<210> 16591

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B3

<400> 16591

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gcctgtcgaa cgtccctgag cttttttcttc aaccaccgcc gaccatcatg tgagctcgta 120

caaaactccat ctccctgtgc gcccttagtt ctgcttcacg cgtttcttca 169

<210> 16592

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C10

<400> 16592

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ttcactcaag cggcgcccaa cagaagtaat ggccactggg acggccctct ccctcagcgg 120

tggccggggc tgtactaccc tgctactggg gcacgcggtc ttggactcag ggcagtgtgt 180

cgcgttccca tgctcgcggg ggaagccgcc gcacctgcca gactgccgcg cgga 234

<210> 16593

<211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-C3

 <400> 16593

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 gagcgagaag aaggcaatgg cggccgagag ctgccttttc acctcggagt ccgatgaacga 120
 ggggcacccc gacaagctgt gcgaccaggt gtcggacgcc gtgcttggac gcatgcctcg 180
 cgcaggaccc cgacagcaag gtggcctgcg agacctgcac caagaccaac atgggtg 236

<210> 16594
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-C9

 <400> 16594

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 gatcatgcaa aaaggaagca agtggcaaaa agaagatttg atgaagatga tgaagacccc 120
 ttatcaatga tcagaaatat gtttgggtat gatcctagta gatatgcagg cagagatgaa 180
 gatgtcagtg acatggaagc cgattttgct actatagaaa tggaagagaa aaggagcgcg 240
 aggattgcta ggcaggagga tgaagaacaa cttcgcttga ttgaggaaga agagagactc 300
 gagcaggaga gaaagaggcg aaagatggca cgaggccgat agtcgaatac actcctatct 360
 ggatgttata atatactacc ttcgttctcg aatatttgct gttcgctggt tcatttttga 420
 actaaaccgt gtcaaataa aaagaacgc 449

<210> 16595
 <211> 148
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-D2

 <400> 16595

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gacacaccaa gcgttggggc caatagctta ctaccaggag gtgggctact gctcagaaga 120
cgtgacgtcc ggagcctcgg gcgggttt 148

<210> 16596
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D7

<400> 16596

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ctaattaaca tgtaagacga actaaccctt tgcacgggca agctgggttac ctatcctgtg 120
caaattgggca gtacaatacg aaatgttcag atttcaccgt ggcatcaatg aacttatgtt 180
cgaaggcagc gacaccaccc aaggtatcga taccgattgt gaaaacgcat attgatagaa 240
ga 242

<210> 16597
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E10

<400> 16597

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caagactcac ggggaggatg taagggttcc cctcgctga atgctgcgcg gcgaccgggt 120
cactgccggc gacgtccact cggacgcgag atgttccatc cctttacgct tgcttcttgc 180
gcacgcggtc tgagttgata gtaattggac actgaatact tggattgtat ctctagatag 240
tctataaggt gagtgggctt ggaaggagaa atactacaag cgattatc 288

<210> 16598
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E9

<400> 16598

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 tttttcctag cacaaagggg aggaagtaaa ggcttccctt cgccggagat gctgccgtcg 120
 gcgaccgggt tcaactgccg cgacgtccac tcggcacgcg agatgttcca tcccttctac 180
 ctctgacttc ttgcgcacgc ggcctctagt agatagtaat tggacacttc atacttggat 240
 tggatctcta gatagcctag aaggtgagcg ggctgtggaag gagaaattcg ggaagcgatg 300
 agctttagcg ccgaagagt ctcggagcat ggctggctagt tcgaagaggc aagggggaat 360
 gccggcagat gtgagctggg agatgct 387

<210> 16599

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-F12

<400> 16599

gagaaggaga tgaatgagct caagctctag gagatcaaga acggcaggct cgccatgctc 60
 gccatcctcg gttacttcat ccaggggctc gtcaccggcg ttggcccggt ccagaacctg 120
 ctcgaccacc tcgccgacct cgtcaacaac aacgtgctca ccagcctcaa gttccactag 180
 aacgttgggt catcagcata cctgctgccg tcgccgccag ttgtttgctg tggaaagcta 240
 gatgcatgcg tgttgtaaag gaacctgaag cgttgcatcg gtcattgatt atgcatggcc 300
 agcctgctgc ctgtaacaac aaactagtat tgatcttatt gagaccggaa actgtattgc 360
 acatggtaaa tc 372

<210> 16600

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-F4

<400> 16600

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 gaccgaagct caagatagag gaagcgccaa ttctgatca ctggaggact atactatctt 120
 attcaagcac ggcaactgat gtaacaccaa ttgacaataa gacgggtgta cctcttctga 180

gatgaaagct tccctttctc gtcagggtcca gatataccct ttcaacctag cac 233

<210> 16601
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G3

<400> 16601

ccggctcgac ccacgcgttc gctgagctcc aggttttcac acctgacgtt tatttatcat 60
acataaggcg cccgcggtgc ccatggattc gtgtcaccgc gtgccgagag cgcatatcat 120
tccgagcgac gcataaacc ttatgcaggc acccgaccct ttcatgggaa ccaccaccaa 180
ccaggcaagg ctctctctct cgaagcaggt aacagaactt gcgaagcacc ccgtggatgg 240
ggtctctgat gcgctggtcc tctacagcaa tgtcttcgag tggcaggtca cca 293

<210> 16602
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G4

<400> 16602

ccgggctgta acccgccgcc gacgcagcag caggagacgc gccaaggaga gcccgcagg 60
aggcgactat gagggccaag tggaagaaga agcgcatgag gaggctgaag aggaagcgcc 120
gaaagatgag gcagagatcc aagtaggctg atggggattg tggatggtgg tgtcggcata 180
gttgtgttac gtttcttcga tgcgtgagtt catggagaga tgtcacatcc tagttcgtcg 240
tcaccgtttg ccatgggtcc aatggctcgt cttggaaacc tgcacttcag taggccatct 300
atcgtggttt ctagctatat ccagagtttt gtgctaagac aaatcagtca gtcgttttgt 360
gaacctatta tgatggagct ttatttgctg ctaaatatga acctacctgg taagtaatgg 420
caacgttcgt ct 432

<210> 16603
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-H12

<400> 16603

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acgctggaca tgtgctgtac tcgaatcatc gcatcactta cgattcatcc tcgaattgac 120
atgtgatctg aaaagacagg gtgcattgta caatccatga cgtgcgtggg tcactatcat 180
agcacgaggg cgatcgacgc aagcgctgtg ccacctggat cttgagctac ctgtgagcac 240
atacctgccc aacttaagcg ccaggcagcg catgttgaac tgaagatcac gatagcaccg 300
agtctccgct agtaagacag tgcactatct cgattaccaa gtcttgattc acgatactct 360
caaggtaaaa tgtggagaca agaccaacac aatccacatt ttgctgcgac ttcgttgatg 420
cgcaatgctg tattcacta 439

<210> 16604

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-H3

<400> 16604

aaaaaaaaa agtgggtgcta tataaatttc agagatcaac aatagaatac tgaaaaaaag 60
gagagacctg aaaaacaaag ggcaagcggc ctagaggatt caagggttacg tgctcacgac 120
tgcgacctgt taactctgtc attgtgctat c 151

<210> 16605

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-H7

<400> 16605

cgtaccgggc ggaattcccg ggagcgacag agtatggaaa tggataaggc agcggcgaga 60
cgagccgatt aaatagggtg caagtggaag tgcagtgatg tatgcatctg aggcaccta 120
acgaacgaac gatttgaacc ttgttcctac acgacctgat caaatcgatc aggcacttgc 180
catctatctt cattgctcaa ctctttgatg aaaaaaaaaa atgatataga aaaaaaaaaa 240

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaataaaaa 300
 taataaaaaa aataaaaaaa aaataaaaaa ggggcgcctt ttttaaagga cccaagttta 360
 cttcccctga catgcaactt tatacctttt ttt 393

<210> 16606
 <211> 472
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A2

<400> 16606

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 gcacagactg cttcagtccc gaaagcccaa cctcagccgt catccggagg ccgggaccaa 120
 aagaaccatg taatcagggt tgttcgcgat aacgcgcaga ctgcttcgga gtcagcagcg 180
 tggatcttgc ggtcaatata aatggagagg aacaaaatg attcgtagct ggttaccata 240
 ctttcgtgtc atccgatggc agcttagtgc agcattgcag tttacagggc tacccgagct 300
 gcagattatg gtggctcctg tattctgacc actgattgcg ctttaccgga tcgtcataga 360
 tattggatga tatgatcttg tgttctatgc agagttgtaa gccaaagttg tgcccctgaa 420
 gactgaagtg acagtcctga agttgggaag tcttctgaa tgtgctatga ct 472

<210> 16607
 <211> 134
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A4

<400> 16607

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 tccgatccgt gcgcgtgcgc agtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtcggtgga 120
 gagatgggtca caga 134

<210> 16608
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A7

<400> 16608

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caataagaaa gcgtgaaaaa aaaacacacc cactccttgt gtttctgggt cgccaggctt 120
gtcgaaacat tgaagaaccc cagtgattgg tttgtagtct gtcgtcgtcg ttctgcccc 180
atcaagagcc ccggttgctc atggtggtgg ctgtcgtaat gtagcggttg ttgacctatc 240
ttctcatgaa ttgaaaggat cctgccccatg tacaaaaatt atagcgtggg aatggttggt 300
tgacggacaa aaaaaaaaaa aaagggcggt ctgtctagag gatccaagc 349

<210> 16609

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B10

<400> 16609

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gacaagaagc ccgagctttt cgggcctgtc tagtcggcc aggcccgcaa gtacatgggtg 120
ttcgcttgct acgacttcca cgtgtgcca tcggtgacct tgggcctgca tgccggtgag 180
gccttcaccg ttcgcaacat agccgtcatg gtgccaggct acgacaagac caagtacacc 240
gtcatcgtgt ccgtcatcga gtacgctgtg tgcgctatca aggtggaggt cctcgtgggtc 300
attggccata gctgctgccg tggcattagg gcgctcctct gcctccagga cggcgcacct 360
gacaccttcc acttcgtcga ggactgggtt aaaatcggct tcattgcca gatgaagggtg 420
aagaaagagc acgcctt 437

<210> 16610

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B12

<400> 16610

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ctatggccta gaaatgtcta ttatgagata aagtttgaat gctagaaata atgaagttcg 120
ctactttctt cgtaatatc tatggcacat actacacaat tgatgtttca tgaatatata 180
tacatatcta ccaaaaaaag ggttacacct gcagagttgc tgcagctaata tgtacaattt 240
acataaaactg aagcgatgga aggacgaatc agctctccaa ggtctctagg gctgctatct 300
ggagttgtcc tttgaagcat ctggtgtgga ggtgctatca gaattccttg cctctgactt 360
ttcgtttgag tacgtcgaca atattgtgac ccagacaagc tccacacagt cgacccatag 420
aagtctttgc tcaacaagaa ccacacc 447

<210> 16611
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C1

<400> 16611

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ggtcgcacgt ggggtggggga aatgctgctg ctcgggatgc tcaggcattc gcgtaaacga 120
tgcggagaag ctctgacga tcggaggcca tgtgctgcgc gaaggtgagt ggctgtcgct 180
gaatgggtcg actggtgagg tgatccttgg gaagcagccg ctttccccac cagcccttag 240
tggtgatctg ggaactttca tgggtgggt ggatgatgtt agaaagctca aggtcctggc 300
taacgccgat acccctgatg atgcattgac tgcgcgaaac aatggggcac aaggaattgg 360
attatgccgg acagagcaca tgttctttgc ttcagacgag aggattaagg ctgtcaggca 420
gatgattatg gctcccacgc ttgagctgag gcagcaagcg ct 462

<210> 16612
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D10

<400> 16612

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aaaacaactt tcatcgccag tcggcaccgg agctcccttc gtcggccttg cttcagtgtc 120

aaccccccttc tcaaaacttg tatttgcacc tcagtccttg cgggtctggc cggtcgccgg 180
ctcgccggat gaagcccctc gtctccttgc cctgcggcgg gttcatgggg ttctcgctgt 240
accccatgaa gacgttcacg cggatgctct ggagcactag cttcttccgt cataagctca 300
gctgctgcta ctgcttctc tgaggacgcc ccaccgcct cgatcgcttc ggcggcgggc 360
cgctgctgct gcgctgtcct agcatccgtt caagtgtggg ttgcgcttct tgggtttcaa 420
gattggcttt tgttgcgttc ttg 443

<210> 16613
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-006-Q1-K1-D3

<400> 16613

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ccggccacga cacccttctt cggcgccggc gccggcggtc ggcgggccac gccgccgct 120
cgttccggcc ggtgacggcg gagctcggcg gcgtcgcgac ggagctgggc cgccagctgg 180
tggaggcggt gggcggtggg ctcccctgca ccgtcatgca gtgcggcgac gtcattctacc 240
gcagcacgct tccccggaac gacgggctca ccattacggc ccccggcgtc gcgctcgcgc 300
tcgtaccgt gtcgtacctc tggttcacgc ccggcgctgc gccgggggtc ttcgacatgt 360
tcgtcctcgg cttcgccgaa cgcctttttc gtcctttctt tcgcaaggat gacttggtat 420
ttgggaagaa gcttggggag ggcgc 445

<210> 16614
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D4

<400> 16614

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gtgtcatggt ccatgatgtg ctgctgggcg caggatgatg cgggctggtc ttcgaggcca 120
gccagttaac cgtcaaggtc ggtgacacca tcacattcaa gaacaacgcc ggcttccccgc 180

acaacggggt gttagacgaa gacgacgtgc cgagcggcgt tgacgtcacc aagatctcac 240
aggaggagta ccttaacgcg ccaggcgaga cctactaagt gacccttacc gagtccggaa 300
cctacggctt ctactgcgag ccgtatcaag gagccggaat ggtccgcaag atcacggtca 360
actaattaag ctagctatcg atcgatatcc attcatgtat taactgttgc ttctgtcttt 420
gt 422

<210> 16615
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-E1

<400> 16615

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tgtggagaag gtggacgcgg tgctttccga cttcgacgcc cacttcgatc gcctcttcgc 120
tttcccggac gccgccttcg acggccaggt gaagctgctg ctctttctgg ccgaccgcaa 180
gcctggctcc tccctctact ggtgccccga ctgcaacgtg gccgagccgg tgatctacga 240
gcggtctggag gcaactggagg gcaaggactc ggtgctcctg cgcgcctacg tctgggacaa 300
gcccacttgg cgcgaccggg cgcacccgtg gaggggtggac cccaggttcg ggctc 355

<210> 16616
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-E2

<400> 16616

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taatgcctgc tgcacgtgcc ttctctttag gaaagctaataaat gaatgccctg cagtcctatc 120
aaaatgagag caagcagacc atcttcattg agtatattat gcttgatgga gttaacgatc 180
aggaggagca tgcacatcag cttggtaaac tgcttgaaac gtttaaagcg gttgtaaatc 240
taataccatt caatccaatt gggatcatcaa gcaatttcaa gacaagcagt gacaaaaatg 300
tgaagaactt ccaaaagggtc ttaaaaggca tctaccgcat cagaactact attcgccagc 360

agatgggtca ggacatagct ggcgcttggt gccagttggt ggtagcctc ccagatgaaa 420
gatcagctgg tggagcaact cttt 444

<210> 16617
<211> 188
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-006-Q1-K1-E4

<400> 16617

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acgtgtttgg gtgggaacag gggaccttct ccaaccttct ttaacattcg ggctcatatt 120
ccttactgcc attggttgga ggaactgccc tattaccata tttattggag gagagagttg 180
atgagaca 188

<210> 16618
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F1

<400> 16618

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ttctcaactc tcaagcacca gcaggaatcg agcgagcgag cgagcagtgt ccgccccca 120
tgccatggt cgcgtccacc tccttcgctg accacaagcc gcgtttcgcg gtggtgtgca 180
ggaagaacag ggacggccgg gacagggagc gggacggcaa ggagcacaag cacccttca 240
aggtcgtcga gatcacgccg tctccgcggt gcctcggcgt ccgctgcttc cccaccaaca 300
tccactgcgg cgagagcgtg acgatcgagg ggcaagcgta cacggtgtcg gcggtgacgc 360
accggtacca gctgcgcaag gggcggtacg agccgagcga gaagcgcctc gacgtcctct 420
tcaccggcag atacattctc aacctttacc 450

<210> 16619
<211> 442
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F11

<400> 16619

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tgattctgta attacacatg catcatgtca tacaacttta agttaaaccc cctgcgtagc 120

tatttttagtg tatgaatcat ctaccttggt catacatctt tagtgaatag agtgtatctg 180

ttgcccttct cgatagatga atcaacaaga agcccctacg ggagttggag agtttctacg 240

agattttggt gttccagtggt tcctgtggcg actacttcaa gaagtcggat ataccgaagc 300

accaagtac cagtggccac gcacggttct tagaggacaa ccatggtatg aggtagtagt 360

gcatattcca gaacgtgcta gaaaccatct tggccacatt ggatgttcca tgctgaagga 420

atgactcctt gggaaggtgc tc 442

<210> 16620

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F3

<400> 16620

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ggcgcgtcag cattcccttt ccgctgttc tccgcggagg cgcgccggaa cactaagagc 120

ggtcgaggca agcggagcgc cgccaagccc atcaagtctt cggccccacc tcgacctccc 180

tactcctctt tcgtcatatg cggcggcgtc gcggccacca cgttcacgcg gattccactt 240

cgcgatgcgc ctgagtgcac ccaggtcagc ctcgaacgat taccacccgg cccgggcaac 300

ccggggggcgc ccgctctcac gctcgggagt gtgcaacggc tggagaacga ggagttcgat 360

gttgggtgga ggcccaactc tgtcgcgcg 389

<210> 16621

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F6

<400> 16621

tcgggttcgga attccccggt cgacccacgc gttcgagcag atcaccgact gctgggtcaa 60

cgggtccctac tgccgccccg tcatectcca cagctaagct aagcgagggg agggcgatta 120

atTTTTtatt gttgccatgt tatttatacc tgtgtttacg ttgccgggaa aaaagtgtcc 180

cggcagctgc atgcatgtgt tgctcttgt aacttggtat actgggtggc tttatttaca 240

aatcaaattgg tatagatttt tcatggaaaa aaatattaag tcattttt 288

<210> 16622

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F9

<400> 16622

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cgatcccgcg ccatggatcg cgccgacccc gcgcggggcc gccttgccgt gctctcctcc 120

cacctccgtg gtgcaggggc cgaggaggcg gcggggctgg agaggtcgcc ggtatccgcg 180

ccggcgcccc ggccccgcgc cggcgcgctt gccgtgggtg acgggaggac cgggaagcgg 240

cacgaggtca aggtctccga agacggcacc gtgcgcgccca ccgacttcaa gaagattacc 300

actggaaaagg acgacaaggg tottaagatt tatgatcctg gttaccttaa cactgcccct 360

gttcgctcgt ccatctgcta catcgatgga gatgagggaa tccttcgcta taggggttat 420

ccaatcgaag aattggctga aagc 444

<210> 16623

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-G11

<400> 16623

cggtcgaccc acgcgttcgg gactgtctac attatgagct atcctgagtc tgcacggggt 60

gttccgtgta agagggttca cacaggatga tgccacata ttttgtctgg aggaccagat 120

aaaagatgaa atcagaggtg ttcttgatct aactgagcaa atacttggac aatttggttt 180

tcggtattat gagataaacc tttcaaccag accagaaaaa tctgttggca ctgatgacat 240
atgggaaaaa gcaacaattg ctttgaagaa tgcattagat gataaggggtt gggaatacaa 300
ggttgatgaa ggtggaagtg ctttttatgg tccaaaaatc gatctaaaaa ttgaggatgc 360
tcttgaagg aaatggcaat gttccactgt gcagggtggat ttcaatttgc ctgaacgggtt 420
tgacattacc tatgtcgatt ca 442

<210> 16624

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-G2

<400> 16624

tcgaccacg cgttcgacg ccaccctac acggtttcca gcatagcatt ccggaaggag 60
ggggcgcat gtggcacgag gcgcggcggt cggagcggaa ggtccacgac ctcatggacg 120
cggcccgctg tcgggcgcaa cgccgagccg tctaccttgc cc 162

<210> 16625

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-G9

<400> 16625

cgggaattccg ggtcgaccca cgcgttcgag gcccttcct catcgccccg cggccatgaa 60
tctggaggtc atgccaagc ccaaacagcg ggtgctggag gcgcagcaga gggaggaggc 120
catggagatg agcgacctgg acctgtggaa gcacgagaag ccgccaagga tctgcccctt 180
gccccgctg ctcccgcgc cgacgccagc gttcgacgaa gcggcgctcg tgccgccgct 240
caacttcgcc gtggtcgacg acggcatctt ccgctccgga ttcccaggga ccgccaactt 300
ccggttcctc aagtcctca acctccgctc catcgtgtac ctgtgcccgg agccgtacct 360
ggggacgaac acggagttcc tagaaaagaa tgggatcagg ctgcaccagt tcggaatcga 420
tgggcgcaag gaaccatttg tcaacatacc cg 452

<210> 16626

<211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-H1

 <400> 16626

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 ggtgacgtgc tccaaggaga aggacgccga cctcttcgac gccgtgctgg gagggctggg 120
 gcagttcggc atcataacgc gcgcgcggat cccgctggcg cgggcgccgg cgagggcgcg 180
 ctggctgcgg ctctctaca cgggcgccgt cgacctcacg ggcgaccagg agcggctcat 240
 cgtcgacgac gagcgccgcg gcggcgcgct ggccgggctc atggactacg tcgagggctc 300
 cgtcgtcacc gaccttcagc agggcctcat cggcagctgg cgctcgagc cgccgacgtt 360
 cttcttcgtc ttgtactcgg agtcggtgac cgacgc 396

<210> 16627
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-H12

 <400> 16627

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 atggctgctg cggctgcgat gatggctctc ggaggacggg cggcgctggt ggtggcgggc 120
 gtgctctcgc cgggtggcggc catggcggcg gcgcagcagg cgtcgaacgt gcgggcgacg 180
 taccacctgt acaaccggc gcagaacggg tgggacctga accgcgtgag cgcgtactgc 240
 gccacgtggg acgccgacaa gccgctgtcg tggcggcaga agcacggctg gacggacttc 300
 tgccggcccg tctggcataa gggccaggcc gtctgcggca agtgcataat ggtgaagaac 360
 cgtgctacgg gcg 373

<210> 16628
 <211> 53
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-H8

[illegible]

53

<213> Zea mays

<400>	16629
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60

120

180

187

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A1

<400>	16630
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60

120

180

240

300

360

408

<213> Zea mays

7211

<223> Clone ID: LIB3060-007-Q1-K1-A5

<400> 16631

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ccctgcgcag tccatgctct cccgccagcg ctgcatcttc ctgaggagca agcctcaggc 180
ggcatcccaa gtgcgagggg gcatcatcgg cgggtggcgc agcagcaggc cgttctctgt 240
cacctgcaac gcttctctct ctcctgtccc ttctctcgccg gcgccggcgc aggaagaccc 300
cgactgcaac gaggaggagt gcgccccgga gaaggaggtc gggagcctga gcgccgagt 360
gctggccgag gagaggaccc aggtcgtcgg cactttccct cccaagaaga aagggtggac 420
cggcttagtg gagaaggaca ccgncggcca gaccaacatc tacttcgtcg ag 472

<210> 16632

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A6

<400> 16632

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ctttctcgac ccctctcaac ttgggggatg cagtgggaagt caagaggaca gcccagagga 120
agagatgaat accaaagatg gccctaagac aagaaagatc ttcatcgagt gggctactgg 180
atctttactg aaggttgggt tggctatcaa caaaciaatg ttgaattcat ctttttatga 240
tactgagaag gcacaaaatt catatgagat gaaggatcac tatccattgt atggcaagg 300
gcttgaacat cagataatgc ttgatcatag cactgggcca tatagaagg 353

<210> 16633

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-C10

<400> 16633

accggtccgg attccccggg acgctcaaac ccggcacgac gcggccatgg tgtccgtcct 60

gctgaaacac tcggaagcca aggtcttcct cgtggagtcg cagttccacg ccgtggccccg 120
cgacgcgctc aggctcctcg ccgacgccaa agacaggctt cctctcgtca tcacggtctc 180
tgacccacgc agcagcagca gcaccggcga cggccgcggc agcaacgacg gcagcgtcgc 240
ggtcgcggag tacgaagcgc ttctgctggag cgcgccgcgc gacttcgaaa tccggtggcc 300
ggcagacgag cgcgacccga tatcgtgaa ctacacgtcg ggcaccacgt cgaggcccaa 360
gggcgtcatc tacagccacc gcggcgcggt cctcaacacg ctggccacgg tgctcgtcaa 420
cgagatggcg accatgcccg tgtacctctg gaccgtgcct atg 463

<210> 16634

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-D1

<400> 16634

cccgggtcga ccacgcggtt cggaaccaa taccagcaa ttacaaaatc attttcccat 60
tgagaacaca caacataatg gctgattata ggtttcttgg tcaagaaact ctaatagcat 120
tgtgccttct cctctctttt ccaccgggca tagcctccat ccattcatcc aactgaaca 180
tgagttgcat cttagaggag aaggctgcgc ttctatcaat caaggcaagc ctctggatc 240
ctaacaacta cttctacttg tcatcatggc aaggtaaga ctgttgagc tggaaaggaa 300
tcaggtgcag caaaaaaact ggcaacgtcg tcaagctcga tcttaagcgc ataatccag 360
gaaactttgt aagtgaata agctactctt tagttaattt acgacggctg agatatct 418

<210> 16635

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E10

<400> 16635

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agctccctgc atggtgatgg aggggcgcac aggctcactc tacggccgcc tcaacaagag 120
cagcacgcgg gggttcctcg cctacaccgc cgccggggct gcctgcgcgg ctgtcctcgc 180

ctgcttcgtg ctctccgccg cggactcgcc ggcattctgcg gcgcgcaacg atggcgcgcg 240
 cctccgcctg tcctcgcgct caccgcgcgt ctggcccgac ctgcggttca actggcggggt 300
 ggtggtcgcc accgtcgtcg ggttcctcgg ttccgcgttt ggcaccgtcg gcggcgtcgg 360
 cggaagcggg atcttcgtgc ccattgctcaa cctcgtcgtc ggcttcgaca ccaaattcc 418

<210> 16636

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E12

<400> 16636

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 ggtggcatag catgcttttg tcttttgaac tgcacatgat acacacgaca cctcaaactc 120
 gaaccccaag ttagtttgaa gaactcaaaa aaaaaaaaaa aaaaggcaga caatctaaaa 180
 gatacaaaga taaaaaacac aagcatgcaa aaaaataaca taaaaaaaaa agaaaactaa 240
 attcaattaa aaaaaagggg gggccgcttt aaaggatcca agtttaagtc cgcgggcatg 300
 caacttaata gcttttctat agggccccct aaattcaatt tag 343

<210> 16637

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E3

<400> 16637

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 gccgtccgtg gaagaagatg tcgtacctgc tgccgcatct gcactcgggg tgggcgggtg 120
 accaggccat cctcgccgag gaggagcgcc tcgtcatcat ccgcttcggc catgactggg 180
 acgagacctg catgcagatg gatgaagtgc tggcagcagt agctgagacc ataaagaact 240
 ttgcggtcac ctaccttggt gacatcacag aggtccctga tttcaacacc atgtatgagc 300
 tgtacgaccc ttcgacagtg atgtttctt tccggaacaa gcacatcatg attgatctcg 360
 ggactggaaa caacaacaag atcaactggg ccctgaagga caagcaagag ttcacgaca 420

ttgtggagac cgtatacagg ggcgcccga aaggccgtgg tctgggtg

467

<210> 16638

<211> 483

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-E8

<400> 16638

tgccgtaccg gtccggaatt cccgggggttc aagggcacct atgaggctat cacaaaaggc 60

aacccaatgt ggaaccagct aactgtccca gaagcgtcac tctactcatg ggattccaaa 120

tccacttaca ttcattgagcc cccttacttt aaggacatga ccatgtcccc acctggcccc 180

tctacagtga aagatgccta ctgcttgctg aacttcgggg acagcatcac tacagatcac 240

atttcacctg caggaagcat acacaaagac agtcctgctg ctaagtattt gatggagcgt 300

ggtgtggacc ggaaggactt caactcatat ggtagccgtc gtggtaatga tgaagtaatg 360

gcaaggggaa cgtttgcaaa cattaggatc gtgaacaagt ttttgaacgg agaagttgga 420

cccaagacca ttcattgttcc tactggggag aagctntctg tttttgatgc ggccatgaga 480

tac 483

<210> 16639

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-F11

<400> 16639

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cttcgtcggc ggacttgctt gggccaccag caacgagtcg ctggagaatg ctttcgcctc 120

ctacggcgag atcctcgact ccaaggatcat caccgaccgg gagacgggga ggtcccgcgg 180

cttcggcttc gttaccttct cctccgagaa ctccatgctc gacgctatcg agaacaatgaa 240

cggcaaggag ctcgacggcc gtaacatcac cgtaaccag gccagtcctc gtggcggcgg 300

cggcggcggc ggcggcggtg gctacggcgg cggtcggcgg ggcgggcggt atggtggcgg 360

gcgccgtgac ggcggttatg gcggcggtgg cggctacggc ggtcggcgcg aggggtggtgg 420
cggcggctac ggaggcggtg gcggctacgg cggtcggcgcg gaggggtgg 468

<210> 16640
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F4

<400> 16640

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ccttgatggt gctattgcat tgacttatct ccatttgtgt tctggggacg ctttaatctg 120
ttacaacttg aggacgtcaa acatcctact gacagagagc taccgagcca aagtgtgctg 180
ttctgaactg tcaaaaagtg gtaatatcgt gctattaaag ggaacagggg gctacattga 240
tccagagtac ttggagacct cagagctcac tgccaaatct gatgtctact cttttggaat 300
aatacttcta gaaatcatat ctttttaatg gccacaagac ttggatgtat tgatgaaacc 360
accggaaaac agtgtgtaca atgggctctt gaaaattcta tgacgacctc atgaatgaga 420
ta 422

<210> 16641
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F6

<400> 16641

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ctcgattcca ttccaggatg ctgctgggac cggcgtcaga gacgtcgggt ctagacacca 120
tccggcagca cctcctcgag gagccagcgg cggcggaggg gcggccggcc gacgagagct 180
tcgggagcct ggtggcggac cagtggagcg gctcgctccc gttccgcacc gacgacgccg 240
acgacatggt ggtgttcggg gtgctgcagg acgccttcgc ctactgctgg ctgcccagcg 300
gtcattctt gcacgtgaag cccgatccag tgcggtcacc cgactcgtcc tactaccacc 360
cctgctccta cgacgg 376

<210> 16642
 <211> 470
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F7

<400> 16642

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 agccagcctc gcatgcgttg ttccggggccg gtgatggcag tgcccgcacg cgctgctcc 120
 cagacgacga cggcagccac cccgcgcgcc tgctttgggg ccgcggcatg gccagagcgc 180
 gtgctcgcct acccatggcg atgacgcagc ccgattccgc agcgtggcca gatcccgtgc 240
 tcgcctgctt gcgcggcggg ggcgggccgc gcttgaccgc atctgctcga ccagcgtca 300
 catgcctgct cacggcggtg gcggggacgg cctgcgcgcc tgctcgcatt ctgggcggca 360
 ggggcgctcg cccgcgcgct cgcggccatg gcggtgctcg cacgtgtgct tgtctgcgac 420
 agcacacgcc tgcgcgcttg gttgtggcga cgcccgttg cgtttcgtgc 470

<210> 16643
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G10

<400> 16643

cggttcggaa ttcccggctc gaccacgcg ttccggccgtg cactccattg tgctttgcgc 60
 attgtatgcg tccgtggcgg ggcaccacag acggggggag cgtctagtgt tcctgctgac 120
 cggtgctgcc aagggcgcta agagactcac acggttcgcg ttcctccggt gggccacgag 180
 ggacgcogtt gtgcagatgc tatgcctctg ggtctttggc gatgtgcacg accaggccca 240
 gctgttcaag ctctatgtgg tctccaaact catgccattc tccgcgtat 289

<210> 16644
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G2

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H10

<400> 16647

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tgattcaaga gtattaatga tatacaaaag tttgctttat ggcaagtcag gtaaccacaa 120

atatttgggca atgacaggga tgtgcagtgg tggctcttta aaagaatttt gtgttccagc 180

gtagctatct ccaactgcaa ctatcaaact attacaaact gctgggaaca tgctccatct 240

tattatcgaa gcctgtatct cgagaaagtt gatcgataca tctgcttatt tatggcctgg 300

ttatgttgta ccatctggga ctttaaaaga tacagctttg cccaagaat ccccttggtt 360

aaactttatg aaagggtctc gactttcagg accccttatt gatgctctgg tcg 413

<210> 16648

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H11

<400> 16648

taccggtccg gaattcccgg gattcctccc tgtctccgcc ctcttctcac tcccgtaggc 60

cgtggtgccg ccgccgactg ctgggactgc cctacaccaa gtgccaggt catcttcggt 120

ccattcgccg gcgacgagca ccaccaggtg tgccaggttg accgagctat ggacagcctg 180

tggcatcttg gggacgagct ccgcgggcag cccaaggtgg tggaggaccg ccagtgggtct 240

ctcatgacgt ccaagctggc ggagatcacc aggtccaagg gcgagaggat gaacaccgtc 300

cctgacgcca agcagtggga caagacgtcc taccagcttc acgacgacag caggatgggc 360

cacatcaatc tcggcctcat gaaccttgat ctcaagatga acgaggctgc cgccatgaag 420

ctcccccttc gtggcatgcc ctataacatg aaccagatgt acctc 465

<210> 16649

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H2

<400> 16649

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agatattgaa tccactgaag gacaaatata tgagattaac tcagttaagg gtgaagggcc 120

cggaactgac ccagagaaat gggaggagct attcagatct gctcggtcag actagtggca 180

ttctgcaaag cgtagtaacg taatgtagga atatgcatcg taatacaatg taatccatag 240

agtgagccc taattcaata gtcactgaac agtagcgatc atgtagagaa tatttggttt 300

gtgtacatag tatgagcatt catatatgac gattatacct cctaaaagtg atagtttttg 360

ttggaaagta aaatgttcaa tggt 384

<210> 16650

<211> 444

<212> DNA

<213> Zea mays

<223> Clone_ID: LIB3060-008-Q1-K1-A3

<400> 16650

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gacctggggt tcctgaccaa ggctaggaag tacaccttct tcaagcccaa gttcatcttc 120

tacgccacct acctgtccga gaagatcggg tactggaggt acatcaccat cttcaggcac 180

ctcaaggcga acccgaggta ccaggtgtac cccatcttca agtacttcga gaactgggtgc 240

caggacgaga acaggcacgg cgactttttc ttgacctgc tcaaggctca accgcagttc 300

ctcaatgact ggaaaggcca gcttttggca acggtccttt tgccctcttg gggatgtgac 360

ccatgtaccc tgaatgactg ccaaacgcac tgcatttcta tgaagggaat tgggtctggg 420

acaccaaaaag aatttgacat gcat 444

<210> 16651

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B10

<400> 16651

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gtacgatgtt tattattaca atatgtataa tatgccaaga ttttccactt ggacttgaca 120
acaagagtga atataaagag gcaggaaatt acatatgcat agggaaaaca gacgctgcca 180
gttcggcatt tccatccaaa actgacaaaa cgccaccatc cggaagctga ttattgcggt 240
gcactctgca ggtgagtga gagaagccgc ctagccagtg ttctgcatgc cggcggcgat 300
gcccttcatg gtgaggatga gcgtgtcttt caggccgggc gggactcgc 350

<210> 16652

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-008-Q1-K1-B2

<400> 16652

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ttctctctcc tgtctccat ctccccaatt cgcacggcca tcggaccatg gattccggcg 120
tgctgcctc tgcgcctgcc cctcccaaac acaagacatg ccggaagtgc aaggcgagct 180
atgaccctc ggccaacacg cgcctctcct gcaggttcca cccttccttc ttctgtctgcc 240
gccgccacga cgaccagaag aggtactacg agctccgcga cggcgatcct ccctacgccg 300
ccaagttcta cgactgctgc ggcgccgagg accccgacgc tccgggctgc accactgact 360
tgcaccgttc ctacgacgac gcccaagact agcanaacct tgctggcttc acaggcctca 420
tcttaatct 429

<210> 16653

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B7

<400> 16653

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acagtagata gtactatttc tggaagaaa accataaggt tttctctgaa taacagaggt 120
gctgatagaa acacagctga cagctcgagg acattgctat cattcaaacg caagttgagt 180
gagaggggac cagcagctgg taagcaactt ccgcagaggc caactattgc tgcagagaaa 240

ttagaagatg aagacaagaa gacaactgat aagaagataa ctatgcaaca gagagaaatg 300
 tttcaaaagg agctcattat gacatctgat caagctttta cacagaacct acgccttcct 360
 aaaggata 368

<210> 16654
 <211> 306
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-008-Q1-K1-C5
 <400> 16654

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 ccataaaaca aagacgaact tgtgtaggct cactgcaaca aaaaggaatg aaacgatact 120
 gaaccacgca tgagttcacc ataaggtacg cagagacaaa acacagtaat acttcttgat 180
 attggtttat gcagttcaca ttccatttca tcttctactg ggaaggaatg ggctgcatct 240
 atgggtgctgc agcaacgtca gtcacgggtg acctgaacac gcgggcgagc cgttcagtgg 300
 gcacca 306

<210> 16655
 <211> 465
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-008-Q1-K1-D10
 <400> 16655

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 aaggtgagtg gctgtcgctg aatgggtcga ctggtgaggt gatccttgga aagcagccgc 120
 tttccccacc agcccttagt ggcgatctgg gaactttcat ggcctgggtg gatgatgtta 180
 gaaagctcaa ggtcctggct aacgccgata ccctgatga tgcattgact gcgcgaaaca 240
 atgggggcaca aggaattgga ttatgccgga cagagcacat gttctttgct tcagacgaga 300
 ggattaaagc tggcatgcag atgattatgg ctcccacgct tgagctgagg cagcaggcgc 360
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 gactcccggt gaccatctca ctctggacc cttcccttca cgagt 465

<210> 16656
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-D6

 <400> 16656

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 gcgcagagggc ggcggagcga tgcagcgggg ggccgggagc ccgtggtacg gaccggaccg 120
 cttgctgacc tggggccagt gtgcggaaag cgatcgagct acctgacggg cgagttactg 180
 gtcgactact gctgggacac cgggggggttg tgttt 215

<210> 16657
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-D8

 <400> 16657

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 cccgccccgg gaggtcgaac tgccttctag agccctctcc tgttttcagg cgaatgtgca 120
 ggtagcttga cgtctgatga acgctcagcc atgctgctga tgctacacga aactcttctt 180
 ttcgtgagggc cgacgagttc ttgccgggac ccaaaactct ccgagaagag tgcctctgct 240
 tttcacggta aattgggatg cagtgcggtc tgcagttcat cggaaggcca tcgtgtacag 300
 aagccacaca ttgttcacag cttcaaagta agctttacta ggaccagtca ttcatttgtg 360
 taaaagctta 370

<210> 16658
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-E1

 <400> 16658

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tccctcacct ccaggcggtt gttccccctcc gccggcccggt ctcttctccg gctcccaagg 120
 tcgaccgcgc ggctcaggcg cgccttgcgg ttcgccgctg cgggggatga agcggacgtg 180
 ctgcctggcc cgggggcca gggggaggcc gtggtgcccg ggaggctgga ggagcagcgg 240
 gacgagcagc tgggcggaag ccagctcgac atcggagggc tcgccttcca gggcgacgtg 300
 ggcgggggct tcaccggcgg cgggtgcgggc tccggggcct tcggcggtgg cggcggcaac 360
 aagatgctgg accggggcat caacacggtc atcgtgttcg gggccagcac ctacgtcttt 420
 acccagc 427

<210> 16659
 <211> 486
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-008-Q1-K1-E10
 <400> 16659

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 atgatgctgc tgcctccagt agtgcaactg cttctcggac aatcacagtg gacgattctt 120
 tgccatcaac ctccctccaa atcagggttcg cagatggcag tcgcttggtt gcccgtttca 180
 acacaagcca caggattagt gacgtgcggg catttatcga cgcgacaagg ccaggagcca 240
 gtgattacac gctgcaggcc ggggttcccc caaagccgct tgaagaacac gccaaagacca 300
 tcgaggaagc cggcgtggcc aactcggtta tcattcagtc agtctagctt ggcagaacag 360
 gtgccgcaac cctattccat ggaacacgct aggcattctga agctaccacc ttccttgatc 420
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 tttggg 486

<210> 16660
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-008-Q1-K1-E4
 <400> 16660

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catggcaaca tatgaagata agtccttgg tgatgtccaa gtatacccag agaaggggac 120
agttgctttt tctgctgggc tgcacggatg ggccttcacc ctactaact tcgcaaagat 180
gtatgcatct aagtttggag ttgatgaaac taagatgatg gagaggctat ggggtgagaa 240
cttctttgac cctgccacaa agaagtggac caccaagaac acaggttctc ctacctgcaa 300
gagaggattt gttcagttct gctatgagcc aatcaagcaa atcatcaaga cctgcatgaa 360
tgaccagaag gagaaattgt ggcccatgct gcaaaagctc aatgttacca tgaaggctga 420
tgagaaggag ttgattggca aaact 445

<210> 16661
<211> 215
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-F3
<400> 16661

cccggtcg gccacgcgc cgatcttggc ctgctcaatc catcaccact tggcgtctct 60
gagctcctcc tccggcttcg gggcgggtgc ttgccttctg ctcggtcgaa gaagaagatg 120
aagaaaacat gtgttcgtga tccgtggagt cgctgctctgc ggcgtcggcg ggcaagagcg 180
tgtgctgat ggactgccgc ggggccgctg ggcca 215

<210> 16662
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-F8
<400> 16662

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gaatggacga ggactcagca tataagaata ctgtagagag catcactgga attatatcga 120
aaactatttc aaagaagggg atgcttgaag tgtataactc cttgactgaa gaaggaaaga 180
agcagtttat tgaggcctat agtgcagcat attacccatg catggacata ttgtatgagt 240
gctatgaaga cgtctcttct ggaagttaga ttagaagtgt ggtgttggct gggaggagat 300
tttatgagaa ggaagggctc cctgctttcc ctatgggaaa aattgatcaa acacgtatgt 360

ggaaggtggg tgaaaggggt ccgta

386

<210> 16663

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-H7

<400> 16663

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tggatcttcc ggggacttgc atcgaggaac ttatcaaggt atggatgttg cagtaaagtt 120
cctcagaacc gaacatgtta atgactcgtc aaaggtggag tttttacaag aaataattat 180
tctaaagagt gttaatcatg ataatgttgt tcgattctac ggggcatgca caaagcagag 240
aaaatatgtc atcgtgacag agtatatgcc tggaggcaat ctgtatgatt ttcttcacac 300
gctaaaaaat actttggatc tcccaacggt tctcaggatt gctatcggca tctccaaggy 360
gatggattat ttgcaccaa ataacatcat ccatcgggac ttgaagactg ccaatttgct 420
tatgggctct gattatg 437

<210> 16664

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-A4

<400> 16664

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aactaaggtt ggcgtcatca tgtct 85

<210> 16665

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B9

<400> 16665

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atactgcttc aaaaagcaga ttcgggcttc gttgtgtacg aaaagaacgg aggggtgtttt 120
 tcaccttcgg ctcaaaaaat acaagtttcg tccacatcaa agcatttcac acatcgatgg 180
 aaaggtaaaa attattttac atgggtgtgca caaagttaca atattctcta tta 233

<210> 16666
 <211> 285
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-009-Q1-K1-C1

<400> 16666

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 atcagcttct cggcgtgacc cactcattcg ccagtggagt gtcctgcgcg agccaggtct 120
 cgctgcccgc cagcgggtgag atgtggaagg gagagggtag aaataaacta ggccaagat 180
 cgatgaggta cagcgcacgaa aaatgagagt gcaagagaga taggggactc ggaggtcgtg 240
 tgggccgggg ctccaagacc tgaggggctt cgttgcgcac gaagc 285

<210> 16667
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-E2

<400> 16667

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 aagcatgaaa gatcgatcga gcacctcgct acgagttact tactgcaact aacctactcc 180
 ggccgacacg gcacgaaggc gccggagccg aatgctaaca aagaggatgc taggtgtcct 240
 acccgtaacc ggaggagagg ctggtcacgg gcaccgtcga tcgatctgcg actgcgatca 300
 accgctgtag gtgtgagggt gatgca 326

<210> 16668
 <211> 241
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-G10

<400> 16668

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agggcattca gggggcttct gaaatcgcaa gaaaccctgg aagaacttta tgtgatgaat 120

gatggcatat tataggaagc tgcaaaagct ctatctgagc ttattcctgc aactgaaaag 180

cttaaagttc ttcactttca caacaatatt actggagatg aagggtgctat atatattgct 240

g 241

<210> 16669

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-G2

<400> 16669

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aggtctaaca cacattggca gcgaggtata ctgcattcac atgtgggagc catgagagag 120

ctgtgcagac acgcgcattc cacgatgacg cttcacacct gcatacacat cacgttgaag 180

agcgcatattc tccaggacga cgcca 205

<210> 16670

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-009-Q1-K1-H10

<400> 16670

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taccagcca atcgaagtct tctcttgccc tgctgtatct catatcctgt tgcgcgagat 120

tcttggcgat tctgtactg gtttttattt ttattttgct agttcttgaa atttctttca 180

cgagtgtcag tagccaactg ctgataacaa catcctatcg ttctcttagc ccctttccgt 240

gaccttgcca aagaatttgc tcttctctgt gcgtgtgcaa tttcttccgc tacagctcaa 300

ggatccgcta ctctgctgtt ttgggagatt cgccatgggc ggcgngccg ttaacgacca 360
 cttcccggng gccagcgacc cgctgctccc cacgaagcgg gatggggacg gggacgagga 420
 cgacgcaggt gccttcgcgt tccacgagtt 450

<210> 16671
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-H9

<400> 16671

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 ggtgaggctg ctgagcgtga ggtgcgagca gggagccaag ggcggtggcg ggctggacgt 180
 gtggctgagc cgcggggcga tgctgggctt cgtcggagcg gtggccgtgg agctgaccac 240
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 gtcaccggc gcggtcggcg ttctcacggc ctttctcacc ttccagtccg ggacgcggga 360
 ctgatgggtg aattgtcaaa gcttccaaaa ggacatgcat aaagtctggc agagtcttgt 420
 gctgggtat 429

<210> 16672
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A3

<400> 16672

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 cactcggatc caagcggcca cgcgcgcacg cccagtccaa cccaacccg cgaagctggc 120
 gcgcgaggcg gccgacgcga gcgcccgcga gcgcaaggcg ggggactgcy gccagggtccc 180
 cgacgccacc 190

<210> 16673
 <211> 119

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 cattttctgg agctccgacc acacaggaat ccacctcacg gtaacgttac caggcggcaa 420
 cactgtgtac acattgaagg taaaatctgg tgagaaattt gagttta 467

<210> 16676
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F12

<400> 16676

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 ggctccttcg gcgagggccg catcaccatg cgcaagaccg tgggcaagcc caaggtggcg 180
 gcgtccggca gcccctggta cggccccgac cggtcaagt acctcggccc cttctccggc 240
 gagccccga gctacctcac cggcgagttc ccggcgact acggctggga caccgtcggg 300
 ctgtccgccg accccgagac cttcgtcaag aaccgcgagc tggaagtgat ccactcccg 360
 tgggccatgc tcggcgcgct cggctgcgtc ttcccagc tgctctcccg caacggcgctc 420
 aagttcggcg aggcggtctg gttcaaggcc ggctccaga tcttc 465

<210> 16677
 <211> 135
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F5

<400> 16677

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 tcctccgttt cttgttcgga ttcgtgaggt tctcctatgg acggattatt ggttaagctg 120
 atagagatgt cggt 135

<210> 16678
 <211> 427

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-G10
 <400> 16678
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 ttcattctctg gaaccaagat gcgcacttat gccaaaactg gagagaatcc tccagacggt 120
 ttcattgtgcc cgggtgggtg gaaggttctt gttgactact acaacagcct gcaagctgaa 180
 gaagcgactc cagtccctgt atgaggcaag ctactatttg actaagagat tattcaatgg 240
 cggggaaaca tacaagcaag tgatcagatc atttgagctt ttttccttat tgattcttta 300
 ggtagtagt tgattgatat atgatcagat cttttcgatt gtttgtttgt cttaaataatg 360
 agactctgaa gcatggaaaa actaaagatc tgcacaagtt gagccaaaac agcatggcca 420
 ttgttct 427

<210> 16679
 <211> 469
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-G11
 <400> 16679
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 gcaacaagtt gcaagcaata accgaccaag gacgacgaac gggtcgatgg ccacgctcta 120
 ctctgcagc cgcctgagta gcggcaccgg cgcgcggcc atccaccggc agccggccc 180
 tgctggagcc gtcctcgtcg tcacctgcag gcggagctcc tccgcgaccg tccgcgccg 240
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 gccgacgtgg gcggagttcg agtcggggc ggccgggtc tactggaaga ccaacaggtg 360
 cctgccgcc tgcggggcg aggggctgac cctgttctac aaccggcgcg cgacgaagat 420
 ggccccgaac gaggtgttcg gcgtggcggt caacggcggc ttcaaccag 469

<210> 16680
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G12

<400> 16680

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cagcaagttg caagcaataa ccgaccaagg acgacgaacg ggatgatggc cacgctctac 120
tcttcagacc gcctgagtag cggcaccggc gccgtggcca tccaccggca gccggcccg 180
gctggagccg tcttcgtagt cacctgcagg cggagctcct acgcgaccgt ccgcgccgca 240
gcctctgcca cggcggcgtc gccggctgcc gtagagctgt agatcaagg g 291

<210> 16681

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G8

<400> 16681

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agactactac gacagcgggtt acaacagcaa gaccatcact g 101

<210> 16682

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A5

<400> 16682

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ctgtgtgact gcggcgacaa ggccatcgcg gacgggagcc tcttggaact cctgcgccag 120
gtgttcacgt tcgggctctc cctggtgaag ctggacatcc ggcaggagtc ggagcggcac 180
accgacgtga tcgacgccat caccacgcac ctccggcatcg ggatgtaccg cgagtggccc 240
gaggacaaga ggcaggagtg gctgctgtcg gagctgcgaa gcaagcggcc gctgctgccc 300
ccggaccttc ccagaccga cgagatcgcc gacgtcatcg gcgcgttcca cgtactcgcg 360
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<210> 16683
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-011-Q1-K1-B3

<400> 16683

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 ttccctttcg cgagtgcgtg cccctttctt tctctagttc tcttctcgt cgcgtcagag 180
 atcagggaga gaccagagca aacaacaacc accgcttggt tcatcaagaa tcgtggagga 240
 gaaccgaaag gtgtagtagc cttttccggg agggcatctg ctagagccgg ccggttgaag 300
 caggggagcg agaggaggaa ggcagccgag caggagcatc gcagtgggtg ttaagcagca 360
 gcaacgacga cgacgacgac gctgagaggt ttccccgttc ccgacggcac gtccaccgag 420
 gcggcgccat cgcgatgggt cctctggcgc cgc 453

<210> 16684
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C11

<400> 16684

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 atacaagcaa cacataagcc tgcttcttac tatttcatca tattttactt ctgcctcaaa 180
 tcctattaat tcttcgaact gtataaacca ttgatcttca ctaatcctct ttatataacc 240
 atcttaatcc cctctatata ccccttttac taacttaata tgcctatatt cccatcattc 300
 ccttaactac atctgtttct a 321

<210> 16685
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C3

<400> 16685

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gaagaggagg cagcgcgctc tccgtccgcc atggcgggct cttccgaccc cgacaagctc 180
atgagcaaag ccgacaaact aacaaaattg agttttacaa gatggaatgc tgattggaaa 240
agcgtacct ccttgtatga gcaagctgca attgcgtata ggttcagaaa ggacaatgag 300
aaagcaaaag atgcttttga gaaggcctca aaaggacagg aaatgatctc ctcacatgg 360
gacgtgcta agcatatgga atctgtgct gctttagcaa aggagcttgg gcgctggaat 420
gaagtatctg atttctatca cagagcttca gaatta 456

<210> 16686

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C5

<400> 16686

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ggctgggcag gaagtagtca gcgctgttgg ggaggatagt atcccggaag ctgccgcctg 180
cagcagggag gagaggaagg aggaagagga ggaagaagtg gaggtgagct tcgatgaact 240
tggcctggac gagcagctga agagggcggt gaggaagaag ggcacacctca aggccacccc 300
gatacagcgg gaagccatcc cgctcatcct ggaagggaag gatgtggttg caaaggccaa 360
gactggctct gggaagacct ttgcctatct tctcccactt ctgcacgagc tactgaagtt 420
gtcctcagaa agacgtatac gaaaacctgc accaaatgc 459

<210> 16687

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C6

<400> 16687

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gaccttaggg ccgtaatcgt aacagccgcc ccggagactg agatggatac agcggaggag 120

gctgggcagg aagtagtcag cgctgttggg gaggatagta tcccggaagc tgccgcctgc 180

agcagggagg agaggaagga ggaagaggag gaagaagtgg aggtgagctt cgatgaactt 240

ggcctggacg agcagctgaa gagggcggtg aggaagaagg gcatcctcaa ggccaccccg 300

atacagcggg aagccatccc gctcactctg gaagggaagg atgtggttgc aaaggccaag 360

actggctctg ggaagacctt tgcctatctt cttccacttc tgcacgagct actgaagttg 420

tcctcagaag gacgtatacg aatacctgca ccaaatgc 458

<210> 16688

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-D7

<400> 16688

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cgctgcagcg gcgacagaca ccgaatcggc ggggtacggc agcaactcca tgacgtccga 120

aagccccgac gggcagaagc ggtacgtgtg ctacttctac aaccgggatg tgggcaacta 180

ctactacggg cagggccatc cgatgaagcc gcaccggatt cggatgacgc actcgatgct 240

ggcgcgctac ggctgtctca accagatgca ggtgtaccgc cccaacccgg cccgcgaccg 300

cgacctttgc cgcttccacg ccgacgacta catcaacttc ctgcgctccg tcacgccgga 360

aacgcagcac gaccagatc 379

<210> 16689

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G2

<400> 16689

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tagatggagg aatgatgtca ttcttgggtca aatcaaaaac tgaagattct gtgaaatgtg 180
aagttattga cgggtggtgaa ttgaaatcta ggcgccatct gaatgttcgt ggaaagagtg 240
caaccttgcc atcaataact gacaaggact gggacgacat taagtttggt gtggataatc 300
aagttgatta ctatgctgtt tcctttgtga aagatgtctca agttgtccac gaactcaagg 360
attatctaaa aagttgcaat gctgacatac atgggtatcgt aaaaatagaa agtgcagact 420
ccatcccca cttacatttc atcatcacag catctga 457

<210> 16690
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H1

<400> 16690

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gcgctggctc gccaccgccg ccgcagcagg cgtgggaatc tgggcagcgc cccgcggaga 120
agaggaggca gcgcgctctc cgtccgccat ggcgggctct tccgaccccg acaagctcat 180
gagcaaagcc gacaaactaa caaaattgag tttacaaga tggaatgctg attggaaaag 240
cgctacctcc ttgtatgagc aagctgcaat tgcgtatagg ttcagaaagg acaatgagaa 300
agcaaaagat gcttttgaga aggcctcaaa aggacaggaa atgatctcct caccatggga 360
cgctgctaag catatggaat ctgctgctgc tttagcaaag gagcttgggc gctggaatga 420
agtatctgat ttctatcaca gagcttcaga attataccgt gaatg 465

<210> 16691
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H2

<400> 16691

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gcttcttttg caccacaagg tcgaggatgt cttgcaactg cggatcaagc tgcggctgcg 120

gctcaagctg caagtgcggc aagaagtacc ctgacctgga ggagacgagc accgccgcgc 180
aggccaccgt cgctcctcggc gtggccccgg agaagaaggc cgcgcccagag ttcgtcgagg 240
ccgcggcgga gtccggcgag gccgcccacg gctgcagctg cgggtggcaac tgcaagtgcg 300
accctgcaa ctgctgatca catcgatcga cgacctgga tatgattatt atctatctag 360
cttgtggtgg tggttgaaca ataataagcg aggccgagct ggctgccata cataggtatt 420
gtgtggtgtg tgtgagagag agagaaacag agttcttcag tttgctatct ctctctgcat 480

<210> 16692

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A11

<400> 16692

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tgctgccgt gtcgcggtgg gttctgctcc tcggcgagcc tccagctccc ggcggcgggc 120
ggccacgtcg tcacgcgcac gcgcgggttc gacggggccac ttccgttcta cctcgaaacc 180
gggtacgtgg aggtggacga gcagcaaggt gtgcagctct tctactactt cgtgcgctcg 240
gagcgcgacc cctacgagga cccgctgctg ctgtggctgt ccggcgggcc aggctgctcc 300
ggcatctccg gccttgecta cgagatagga cccttaaaat ttgatgcccg agggcaaggt 360
gaatttccca ctcttctcta ccgaccggag acatggacca aggtgagcaa catcatattt 420
gtggactcgc cgggtggggac tgggttctcg t 451

<210> 16693

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A7

<400> 16693

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gatgccctcg cgcgaattga aaagctttca gagagtaaac ccgatgcttg gcttccgtgg 120
gtgcaggctt ggtatatcgt accctgaatt gacagagatg caagcccggg ccatttttga 180

agctgctata gcaatgacca accaggggtgt tcaagtgttc ccagagataa tggttcctct 240
 tgttgaaca ccacaggaac tggggcatca agtgactctt atccgccaag ttgctgagaa 300
 agtgttcgcc aatgtgggtca agactatcgg gtacaaagtt ggaacaatga ttgatatccc 360
 cagggcagct ctgggtggctg atgagatagc ggatcaggct gaattcttct ccttcggaac 420
 gaacgacctg acccagatga cctttgggtt 450

<210> 16694
 <211> 478
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-012-Q1-K1-B9

<400> 16694
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 ctgaggctcc acctcatcgg gaatcgaccg ccgccgccgc cgccaccgcc atcggagcag 120
 ccgccgcaag gagggcacgt cctcgtccgc gctgaaggcg cgcaaggacc ggaggtcccg 180
 ccacaagcgc cgccgccacg agcgggagcg gcggcggtcc gcgtccgacg acgacagcta 240
 cagcacaagc tcttatgaca gtgaccgtga ggtgtctggc agatctcgga aacataagaa 300
 gagcagcaga tcaagaaagt ttagggagag ggagcggagc aaagatagac atcatagacg 360
 agacaagagt aaacacatag aggtaaattt cctatttatt cagaaactac taaactntta 420
 tgatggctta acttaacatg tcagtggtag aagtacattn tatctatact tncacaca 478

<210> 16695
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C7

<400> 16695
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 agtctgctag tggctctctt gaaccagtca actgtaagcg tattctgggt gctcatcatc 120
 tgacgactca gtaagtcaac agtgtcggc ttaatgtca agctgggctc catgtgtcta 180
 gcgcactcgt ctgtctgtcg tttgcttgtc catggcttgg cactcactta gctgtccggc 240

atacgattcg caagtagtac ctggtg

266

<210> 16696

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-012-Q1-K1-C9

<400> 16696

tcgtaccgtc cggattcccg ggctcgaccac gcgtcggtcg actcgcagaa ttattcagtc 60

aggaaaagat cttagcaatt gactaccggg aaaagaagac cctggtgacg taaccggaac 120

ccatagtcgg cttgcgacta tcgcgtaaata tagacagggt aagcaaattt attattcggc 180

gagtggatta atgaatgac taactagggt tataatgaat tgggtcacia taaatgtagt 240

aatttactaa tttagcatgc ctatattgtg ataatcgatt taggtaaatc ggtaaataca 300

gtaattaaga tacatagtta aagagttaata aaaaagctag gattaaaata gatctagtgt 360

aatatgtcaa ttnggtaatg gatgtagtcg atgcctgct gtgaatccat gnatgcttaa 420

ttttggttta aggttc 436

<210> 16697

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-012-Q1-K1-D9

<400> 16697

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ctcctcctct ctctcgctc ggccgcccgc gttcgggccg ccgtcgacgc ggaggacccg 120

ctgatccggc aggtgggttc cgggtggagat gacaacgac tggagctgaa cgcgaggtcc 180

cacttctga gtttcgtgca gcggttcggc aagtcctaca aggacgccga cgagcacgcg 240

taccgggtgt ccgttttcaa ggccaacctg cgccgcgcgc gccggcacca gctgctggac 300

ccgtcgggcg agcacggcgt cactaagttc tccgacctca cgccggcaga gttccgcccg 360

acctacctcg gcctccgcaa gtcccggcgc gctctcctca gagaactcgg ngagtcggcg 420

cacgaggcgc ccgtgctccc caccgatggg ctccccga

458

<210> 16698

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E1

<400> 16698

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gttcagctca gtagccgtat accagggaca gaggagagaa atcactggat tgcgtgacaa 120

agaagcgtag tccaatatga cacctgccag ccaagcactc gacaaattcc ctgaatcgga 180

gaaccattac cgatctcgtg tattcgagtc agctattgga atggtcgcaa gcgctcaatg 240

tggagaatg gaattagatg aagaagaaag agaggttcag cgcgatgctc actaggtgct 300

caataaattg cgagtcacgg gactctcgtc gact 334

<210> 16699

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E5

<400> 16699

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gcagctggcc gtgcagtgca ccgcgcagca ggggcgggac aggccgcgca tggcggctgt 120

cgtcgacgcg ctcgacaagc tgcaggggct caaggacatg gccgtcaccg tcggcctctg 180

gcccgccacc gcgcccgtcg ccggggcgga cgccatctcc gccaaagatcc gcgcggaggt 240

caaggcgccc gccggcgagc ggtcgcgccc gaggagcgcg tcctccaagc tgccttagta 300

atcttgacgg ctggaccacc tgcgtgccac gtcgtacatg tctcctagct agtcgtgtg 360

taccccggt gtaggaatcg tcttggtgtg tttgtgccac gtcgtcgggt tgtgtatata 420

gtacatacta ct 432

<210> 16700

<211> 181

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-E8

 <400> 16700

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 acagggctctg tatgtcaggc gtgaaggaca aggtgaaggt cctagaagtt ctaaggaact 120
 ggccacatag gaacattcaa gttatctgtg ttactgatgg tgagcgaatc ttgttacttg 180
 t 181

<210> 16701
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-G1

 <400> 16701

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 tgcggacaat ttatgtcttt cctgtacctt aagctgaagc tgttgctcaa gagacattgg 120
 ctgtctgggtg ctcaacttct tctcgattgg gagtctgggc tttgaaagct gagctggaag 180
 atttatgctt tgctgtcttc cagcctcaaa tcttcaagaa aatacaatct gaacttactt 240
 taatgtggaa tcataccgga aaatctaaaa atatgagaag atcatcaatt cgaaacgaat 300
 tacttgcttt caatgaagaa tgggaattgg gggccatcaa tggattgggt aagt 354

<210> 16702
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-G10

 <400> 16702

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 ttattaccgt ggcaaccctg tttgtgtggc ctcgagtttt ccgcgcctat agaagcagcc 120
 agcaaaccct actccttaag accttaacaa agcaagcaat ctaacgggca cggctgggtt 180
 ccgaccagtt ctgtcgtgcc atggatccgc gacacgcatt cttggagagc tcgaccgaag 240

acctgaccag gccgcttctg cccgtgcacg actacaggcc tgcgggacgc tgctcttgct 300
tcgggctcgg gttcctgctt accaccaaca agtacctggc ccgttcgttt ggcc 354

<210> 16703
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-H9

<400> 16703

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gcccggcacc ctctgtccgg agaaggtggc cggcaagagc gtcgtgtgcg accgcggcgt 120
cagcgcgcgc gtccagaagg gcctcgtcgt gcgcgacgcg ggccggcgccg gcatgggtgct 180
gtccaacacg gccgccaacg gccaggagct cgtcgccgac gcgcaccttc tgcccgtcgc 240
cggcgctcggc gagaggggaag gcacggcaat caagtcgtac gtgacctccg ctccgaacct 300
cacggcgacg gtcgtgggtc cccggacgga ggtgggctg cgccccttgg ccgtgggttg 360
cgcggttctc gtcgcgccg cccaacatg gtgacgccg agatccttga gccggacatg 420
atcgcgccgg ggggtgaacat tctggcgctg tggac 455

<210> 16704
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A10

<400> 16704

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acaagctcaa ggctgagcgt gagagaggta tcaccattga tatcgctctg tggaagtttg 120
agaccaccaa gtactactgc acggtcattg atgcccctgg acaccgtgac ttcataaaga 180
acatgatcac tgggtacctc caggctgact gtgctgtcct tatcattgac tccaccactg 240
gtggttttga ggctgggtat tccaaggatg gccagaccg tgaacatgct ctccttgct 300
tcacccttgg agtgaagcag atgatttgct gctgcaacaa gatggatgca accactccca 360
aatactccaa ggcacgttat gaagagattg tgaaggaagt ctcatcctac ctcaagaaag 420

ttgggtacaa ccctgat

437

<210> 16705

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A3

<400> 16705

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cagcgggtctc agatccgtcg gcgtgatcgt ggggagcgac cgggcaagag cctctcatgg 120
gtccaagacg aagatatcgg aagtgatgac atctccagct atcacactat cgtctgacaa 180
aaccgtgatg gatgctgctg ttctcatgct caagaagaag atccacagat taccagttgt 240
aaaccaggac gaaaaagtaa taggtatagt taccgcgct gatgttcttc gcgtgttgga 300
aggcatgttg aagatttagg agcgagata cccatgctcg gaagccacag cctcttgtaa 360
atatgtagat gtgcccgggc atgggtgttc tgagtagcag caaagagatc taccatgtat 420
aggagttttt ccttgtaaataaaaagtagca cgccagg 457

<210> 16706

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-A5

<400> 16706

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accttccaga gctgccccat tgccagaaga gcaaagatca acaccaggtc caggggcagc 120
agcagtagcg tggcgaaggg gtcaccacca ccagccttcc agttccagtg cagggcgctcg 180
actttcgcgg cggacaccag cctccggctc gagctggacg agaaccccgga ggcgatcatc 240
tcggggggcgt ggcccgggaa ctgctccctc ctcagctacg acgacctccg cgcctacctc 300
gagtcgcagg agacggcggc ccaggcagac gatcagcgcg gcgtggcgct cctgagcgag 360
accatgtnca caccgtgct gg 382

<210> 16707
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-B12
 <400> 16707

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 tctccctccc agctgctgca ggtaggacta agtagtaaat agccatatac atagggttgag 120
 tggatcggtta agagagggta gccatataca taggagtact ggatagtata caagaacggt 180
 agatacaggg caggggacat gatgctggga aagagatctg ggcgcccgtc gccggcgctcg 240
 cggcagcaca tgcggcggac cacgagcatg acggagtctg cggcaccgca cgtgctggta 300
 gacgtcgcgagg aggaggagga ggacgaggag ctgcagcttc tgccggcgca cgccgaggcc 360
 gcaggggagg cggccgagca ggaggacccc tacgggtggg ccatcggcgg cgccgcggcg 420
 gccgggcgcg cggaactggct ggcggcgt 448

<210> 16708
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-013-Q1-K1-B3
 <400> 16708

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 gttaaaggcc gcattccggg ccgggaaggc accgtcccag gtggtgcagc caatcaacgg 120
 ggaccgggtta atcggcagcc tggagacgcc cgtcaccttc agcccgtca tcgctggta 180
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 cagccccgtg cagggccagg cgggcgcgct cggcgccgnc ggctcgtcg ccatectcag 360
 cgtctgcctc accatgtacg gcgtcgctt cttcaacgag ggcgaccg 409

<210> 16709
 <211> 426

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-C10

 <400> 16709

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 ttctgggctc ctcttgtggt ttctcggcga atcggcgctgg atcgggactc ccggctggag 180
 aatcttccgt ctgtttcgct aactgtttgg atcattctac gtggcgattg catgccatca 240
 ccttccttga agtgaaaaat atatgggctg atcttggcat ttcattggag gttttgaaga 300
 tgatgaacct ccctcaaac gcgcattgag atcctcagta gaattcgaa gtttaccaga 360
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 ttccca 426

<210> 16710
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-C7

 <400> 16710

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 gttgcaccag ccactccgct tttttttgct cgaacgatcg actgctcgtc gcgtcgggcc 180
 acggccgggc gtcagtttgg gtgtgtccac tccactgtaa agctcctcct cttgtttttt 240
 tgggtactcc ctgcatgcca aagtttagcg acgtgtacta ggtgtgggtc ggagcagcag 300
 gttgtattac ttaccacccc ctctgtgatg taagaacgcg tgctgaaatt 350

<210> 16711
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-D1

 <400> 16711

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 ttattccctg cccacttgac aaaaaccca accgaaacca ccggaccggg gataaaatgt 180
 ccatggggac ccccggaac ttgaaaaggt cggcctcccg gttaaaccgc tggtttagca 240
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<210> 16712
 <211> 474
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-013-Q1-K1-D3

<400> 16712
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 gtgatgacca ttggcattgc actaatcagt tggcttggtc ttccatacac tttcactatt 180
 ttcaactttg gagtccagaa gacagtgcaa agctggcaat tgttcttggtg tgtggcggtt 240
 ggtctctggg ctggcctagt cattggtttt gttactgagt actacacaag caatgcctac 300
 agccctgtac aagatgttgc tgattcctgc agaactggag cagctactaa tgtcattttt 360
 gggcttgctt tgggttacia atcagtcatt atcccaattn ttgctattgc gtttagtattc 420
 ttcctcagct tcagccttgc tgccatgtat gngtgtgctg tggctgctct tgga 474

<210> 16713
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-D6

<400> 16713
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 ctgccagcca gcttgccgtg ggcgccaccg tgatgatggc ctgctcggca accgccgtcg 120
 cccggttcca ggggtctcaag tccgccgcca gcctccccgt cggccgccgc agcaccagga 180

gcctcggcaa cgtcagcaac ggcggaagga tccggtgcat gcaagtgtgg ccggcctacg 240
gcaacaagaa gttcgagacg ctgtcgtacc tgccgacggg gtcgacggac gacctgctga 300
agcaggtgga ctacctgctg cgcaacggct ggataccctg cctcgagttc agcaagctcg 360
ggttcgtgta ccgcgagaac 380

<210> 16714
<211> 157
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-013-Q1-K1-E10
<400> 16714

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agggcaatga ccgttcactt tcgtcatcgt atttgtttcc ggtccacttg cctaaacttt 120
tgtaatcttt gttggcttgg ccttttcgaa tatatcc 157

<210> 16715
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-013-Q1-K1-F12
<400> 16715

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tccgaatcga cttcttatcg caactgttgc cttcatcata ctctcgatca taaaccatat 180
ataccatcat ggtagaacg atggcctcaa cgctactcat atttcttata aggcattgctt 240
ctcttgtaa gccactctca caagcaggca atttcataat tgcacggcac attcatgac 300
tacagcttga tcacggtcac aatctgtttc cagatcaata actcaggtcc ccatacacgt 360
cactacaggc ataccgtcct gtcttggtcc tgaaaacatc tcaccttgac aagattccgc 420
tcctt 425

<210> 16716
<211> 268
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-G4

<400> 16716

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gttaggttta tttttatattt tatcagcagc tgaagttcag taaacaagct tggactaaac 180

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<210> 16717

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-H1

<400> 16717

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ccctccctgg caccacacct cacagggcat cagcctctcc aatcagacgc gagccacca 120

ccgcgcgacc tcagggtgcc tgtgcctgct ctgcgtgttc cttcctcatg gccaccgcct 180

gccacctcgc cgcgcgcgtc ggctcgcgcc cggtgccccg cggctgcgcc tctgctggcg 240

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tcagggcgac gtccggcggc gagggcgcca cg 332

<210> 16718

<211> 356

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-H10

<400> 16718

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tttaggcgat tctcagctcg cctttgtttc gggtgacaga ttctgtgcc tgcggacggg 120

atgtcaagcc ctctcgaccg atttgctagg ccatgctttg aagggtttgt acataacgat 180
gaaaggaaag agagcagatc tgatgcagac aactcagaag gatataagaa cactaagatt 240
gggtctttca atataaaagc aattaatgcg gagaacaaat tcaggcattc cttgataagg 300
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<210> 16719
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 16719

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cgagctctcc aaggaccccg ccgtgagcat cgccatcgtg gagcagtcgg tgcgcccggg 180
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gcacgccgcg ctcttcacgt ccacggtcac gagcctgctc ctggcgcgcc ccaacgtgaa 360
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<210> 16720
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-A10

<400> 16720

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gccgtcggc gccgtcggc gcagctctc gtgcgtgcct ccgccaagga gatcgcttt 180
gaccagggct ccagagccgc ccttcaggcc ggcgctgaga agctcgccgc cgcggtcggc 240
gtcaccctcg gaccagagg aaggaatgtt gtcttgatg agtttggaac ccccaaagt 300

gtcaatgatg gagttaccat tgcccgcgct attgagcttg ctgatcccat ggagaatgct 360
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<210> 16721
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-A11
 <400> 16721

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 cacctgggtgc agtgcaggtc ctggttggtga agatatattc cactggcagg caacaataat 180
 ggggtccatct gatagcccat attctggagg agttttccta gatacaatcc attgtcctcc 240
 cgattatcct ttcaaaccac caaagggtggc attccgcacc aagggtgttc atccaaacat 300
 caacagctgc gggagcatct gccttgacat cctgaaggac cagtggagcc acgcgctaac 360
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 tctgggtccgc gagatagcgc acatgtacaa gacggacc 458

<210> 16722
 <211> 64
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-B10
 <400> 16722

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 cacc 64

<210> 16723
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-B2

<400> 16723

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accaccggcg atgtccaggt cggcttcgca gggcggcagc cacaagccgg cgctccggag 120
gccgtcttc accaaggtcg accagctcag gccgggcacc aacgggcaca ccctcaccgt 180
caaggtcgtc agcgccaccc ccgtgcctgg gcgcgcgcgc ccatgcgcac ccgccgccgc 240
cccatccgcg gcgccgcgca tcgccgagtg cctcatctgg gacgagaccg gcgccatcgt 300
cttcaccgcc cgcaacgacc aagttgactt gctgaagccc aatgcgacag tgatcttgcg 360
caatgcaaaa atagacatgt ttaaaggatc aatgaagctt gcagtggaca agtggggtcg 420
gattgaagct gt 432

<210> 16724

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-B6

<400> 16724

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aaggttaggt aggctaaacg ggccggccaa agctaacgtc ctggtgctgc cgatgccatg 120
ccaggggccat gtgacgccgc tgatggagct ctccacctc ctggtcgacc aaggcttcga 180
ggtcaccttc gtcaacaccg acgtggaccg cgcggccgtg gtagccgcgc tggaggcctc 240
cggcggcggc ggcggcgtag cggcgctggg cggcggcatc cacctggcgt ccatcccgga 300
cgggctggcc gacgacgagg accgcaagga catcagcaag ctcgtcgacg cctacacgcg 360
ccacatgcct ggctacctgg aacg 384

<210> 16725

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-C10

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ggagcttcga ggcggcccg cggggcgcg catccgggcg gactgagcca atggcacggg 120
 cccttggcgc gcgaacgctc taacagttgt cgtcgcgggc ggctagcaaa ctgcgcgtat 180
 gctagcttgt attctgactt ataggcattc agtcataatc cggcacactg tagcttcgcg 240
 ccaactggctt ttcaaccaag ctgatgacc aattgcgtga atcaacgatt cctctcgta 300
 tatgttgaat tactatctcg gagcagtcac tactacctta aaactaacct gtctgacgac 360
 agtatagacc catgtcacgt tccctattgg agggcgaaca atccaacact ggacgaattc 420
 t 421

<210> 16726
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-C2
 <400> 16726

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 tgccatgttc tccatgtacg gctttgggca ggaggccatt tgcaacgtac aaggctcgat 120
 ggatataccta atcgactaca tatcacattc tgtgagccac aacgccttgt acatactcta 180
 agaactttgt ccgcggtaac taattcactg accaaatcca ctcatgtgta ctactatcac 240
 atccatcaat tgtgtcctac ctctgtaaca tgaacattga cttatattct gtactttact 300
 taatcatatc gatctatcct attaatatca ccatccagac tttactcatt accaatctgc 360
 tcttaacaat tactggaatc ctctaccttg tttaagaggt atatatgcca taagctcata 420
 cgaatgtctc ctgatcaacg gataaatcta ctta 454

<210> 16727
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-C3
 <400> 16727

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acacaccccc tctccagctc cgttggagcg tccggacagc agcaggcgcg gggcggtcac 120
 gtagtaagca gctctcgget cctctcccc ttgctccata tgatcgtgca acccatcgag 180
 ctacgcgcgt ggaactgcctt ccttgggtcg gcgcaggagg ggatcggaag gatggcgggc 240
 tcggtttcca gggccatctg cgttcagaag ccggggtcaa aatgcaccag ggacagggaa 300
 gcgacctcct tcgcccgcgc atcggtcgca gcgcgcaggc ccccgcacgc caaagccgcc 360
 ggcgtcatcc gctccgactc cggcgcgggg cggggccagc attgctcgcc gctgangggc 420
 gtcgttgacg ccgcgcgat 440

<210> 16728

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-C4

<400> 16728

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 gctgccatcc atgagtcttg tggcaaaggg tgtgcttccc ttctcagcac gtacctcgag 120
 tgggtgcaca caaaggccgg tgtcagtgc tgcttccttg gagcacaaaa ccagcgatgc 180
 cagaaggaag ttctataaac ttgcgcttgg gaaccttggg gttggactgc ccaccttgtt 240
 gggcgctaag aaagctctcg ctgatgagca aggcgtctcg tcctcgagga tgtcttattc 300
 gaggttcctt gagtatcttg acaaggatag agtgaagaag gttgatttgt ttgagaatgg 360
 gacaattgct attgtggagg ccatttctcc tgagcttggg aaccgcgtgc aaagagtccg 420
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<210> 16729

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-C6

<400> 16729

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gcaactctcg gctccctctc cccttgctcc atatgatcgc gcaacccatc aagctacacg 180
 cgtggactgc ctccctgcg tcggaacatt acgggatcgc aaggatgcct gcgtcggctc 240
 acaaagccat ctgcttaca aaaccgcgct caaaacgcac caatgacaga gaagcgacct 300
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<210> 16730
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-D11
 <400> 16730

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 gccgatgttg ctgcggcgga tgcgatggat gtcggagggg gacggccggt gggagctgga 180
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 gctggggctc tcacgggggt accgcatcac ccgtcccaag cagctagact tcttccaccg 300
 gttcatggcg tccctcttg taccacctt ctccgccatg cgcgacggcc tctccgtcaa 360
 ccacgcccac attttctaca tgacagacaa ctggtcttct accatcttgg agaaaatcaa 420
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<210> 16731
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 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-D3
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 cggttaagtt atctggtgca catgcatagc cgtccgaggt ctttgagaca aggacaggtg 180
 catgtgggcc caataacttg ggaggttctg ccacagcagg gagcaggcgc aaggatcctc 240
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aacaatgcaa cagaatatga agctctgatt catggactga acattgctat atcactgggc 360
atcaagagac tgatgggtata tggagattct ttggtagtca taagtcagat aaacaaagaa 420
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<210> 16732

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E8

<400> 16732

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cgaaaaaagg aaaggaggag ggaaaggatt ccatgggaac atttatgagt tggatggagt 120
ttccgttact ggaccaacca ggttccaatt ccgttatttc aactacactt aaacgaactt 180
ttaaagtggg tcaagactct caagtttatg ggcccttcta tatgggacca agttgtggtt 240
cattggattt gggttcattaa tagggtcacg attcgacttt gatcggtatg gattggtacc 300
aagatcaagt cctagacaag cggaccttat tttaaccact tgtacggtaa caatgaaaat 360
ggctccatct tt 372

<210> 16733

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-F11

<400> 16733

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ctagcatcta tactgcactc cggtgaggag gcggaagggtg cccggtggag tctaagtgca 120
ttgtaagcct gactctttga caagtcaacg gcaccggttg ctcattcagt atgtgcgctc 180
tacagctgct atacacacat cacgttcctc accgtacata ccaaacttgt gccttccaac 240
gacactgggc gccagaactg acgacctgct agagtggagt tctgccactg atcgattgaa 300
gacgactggt atc 313

<210> 16734

<211> 455
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-F3

 <400> 16734

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gctcctgctc gtcgacgtta gattttccca gacgcgcgag ctccccagca actccaacac  180
gttgctcgcc tcgctcagtc ttcaagccat cgtgtcgctg gttctagcca aagtcgggcg  240
cgttctttcc ttccgcaggc agcgccctca gtcgtcgttt cttttccacg gctgcacgct  300
caccgactca agcgctnggc catggagctc agtttcgtgt gtgcctgtgc tgngtcgccg  360
ggtcacgtgc tcatccgttt tgatgccgtg cagcgtccgg cttgtggaac tcgccggcgt  420
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<210> 16735
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-014-Q1-K1-H1

 <400> 16735

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taccggtcga gtttttccct cctctctggc cggcgttctg cctcaggctt gcccaggcta  180
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gcccatctcc ctggagtttc tgcccgtgcc gtgcctcttt actgtgctca cccaagttgt  360
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<210> 16736
 <211> 446

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-H3

<400> 16736

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 cacggggtgg aggggccccg ggtcgcgggg aagccggcgg cggcgcgggc gcggtcccgc 360
 gcgtcgcggc gggcgcccgt gacgctgctc aacacggacg ccgnaactt tcgcgccatg 420
 gtgcagcaat tcacgggcgt cccgcg 446

<210> 16737
 <211> 220
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-A12

<400> 16737

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 tggagctcgc gggctcacc gcgctcgccg acgacgcgcc 220

<210> 16738
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-A3

<400> 16738

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 ggcgagggcc gcatcaccat gcgcaagacc gtgggcaagc ccaaggtggc ggcgctccggc 180
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 agctacctca ccggcgagtt ccccgggcag tacggctggg acaccgtcgg gctgtccgcc 300
 gaccccgaga ccttcgcca gaaccgcgag ctggaggtga tccactcccg ctgggccatg 360
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<210> 16739
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 16739

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 gcgttcgcca cggggggcgt cgcgggggccc atgctgcgcc tcaggagtc catggcggac 180
 gggctccgagt acaacctgtc ggagctgcgg atggagtgcc acaccggcac gcacgtcgac 240
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 ctccacgtcc tcaacggacc tgcattgcta gttgatgtgc caagaaacac aaatataaca 360
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 ctgaacactg acaggaagtt gatgtg 446

<210> 16740
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-B1
 <400> 16740

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 ggaaagcgct gatgctgccg ctctgcacca acagtgtcgc cgccgcact gactgctagc 180

tgaagcacgg cgcccgcaag ctgtgcaagg ctgagaactg cggctagagc gccagagga 240
gcacggactt ctgcaaagcc catggcggag gacagcgggtg cacatggggc acaggctgcg 300
aaaaactgtc ccgtggcaag agcggcttct gtgcagcaca tggcaccttg atggccaggc 360
atgcgagaac atgcagcgga caagaatgta ggaagcatga ttggaccagg tc 412

<210> 16741
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-B12

<400> 16741

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atctcaatga taaatcactg cccctaccct acttacttag cttgcatcac atatccctat 180
cctcatctgg cttaatacct aagaggcca cacctatccc acttcctatc acttgcgag 240
cctcaattac taatatcact ctccctgtat cacagcatta atcgagact gtgtcatatt 300
tacacacaac atc 313

<210> 16742
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-015-Q1-K1-C12

<400> 16742

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cagctccagc cgccgtcagg cttccgacgc aacttctaac tccgttcgcc tccaggcgac 180
accatcgccc gctggcacgc cgccacagca gcaggtaaac acaatttggc ccggagctta 240
gttgaatcct gttccgcca ctgaggacaa ccatggcgtc gtcgaagctg cagctgcctg 300
ctgacgacag cgtcctcctg ctcatcacc actccaatct caccaccttc gcagcggaca 360

tccgcgtctc gcaacagacc accgtggagg cgctcaagga caagctctgg cgcaag 416

<210> 16743

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-C3

<400> 16743

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cgaaagcggc gagcgaatta gaagatgctg gacaagctgt gggacgacgt ggtggccggg 120

cctcgcccgg agacgggcct cgagaagctc cgcaaggcca ccaccgcccg tccgctcgtc 180

atcaacaaag acgcggacgg cggcagctac aagcggggcg agtcgatgcc gtcgaccccg 240

acgacgccgg tgacgccgtc gtcgtcgtcg tcgtcgacga cgccgcgcgg cgccggcaac 300

gtgtggcgca gcgtcttcca cccggggagc aacctggcca ccaagggcat gggcgccaac 360

ctcttcgacc ggccgcagcc caactcccc accgtctacg actggctcta cagcgacgag 420

accaggagca accacc 436

<210> 16744

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-D4

<400> 16744

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attgcattgc atggctagaa gcgttatatc taggaggcaa aagcaggagg agactggtgg 120

gaggggagta gaccatcgcc tattcgattc tcactacttg tccatgctgc ttaaaagaat 180

ccctctggtc ctgattaatt agaagctgta gttgtccttg acttgcaacc atgtatccac 240

agatggtata tcatgcagat gttcgggcca gggagaagga gttggcggcg gcggagacgg 300

agacggagac catgggctgc tgctcctgcg ctcccttng caggatgata tccagatgta 360

tcatcaaacg caacgtanga agagaacggc gcatgaggta cgacgagagg acgggaatgg 420

actatgccat ggcgtacgt cccccgcaga catgctacgt gcgcca 467

<210> 16745
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-015-Q1-K1-E11

 <400> 16745

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 gctgccgaat gatgctacaa aacgggtgctc aatctgatag ctagattagc cattcattat 120
 agttctatag cctgtgatt cacaatatca cgtacatgcg ttgtcaggac agagcctggg 180
 aacgacacat cgtacttata gatctacact agagatactt gcagacacga ttgagatgag 240
 cgaaaacatg gacaagaaga gctgtctgga ctgatgcagg ctaggacctt caatgcctat 300
 gctcgatgca gatcgcgtae taagggtgaca atgtgtgcag gggaatacac tatcgtggca 360
 gcatttcg 368

<210> 16746
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-015-Q1-K1-E8

 <400> 16746

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 aagaaagctc gtattgggaa ctacagttcc agtactccaa agtgtactcc agaaataaac 120
 aagagatggt ttgctgctct tgttcgccat aacattgatt taatctactt gaagaaatct 180
 ttgggttggtg atctactaag ggagccggat acatttggca gcaaagttat tggctgtttt 240
 gtgagaataa agattgatct caacgattat agtttctaca tgcataaaaa ggtgcaccaa 300
 catagaaagt tgtatcagct tggactagta acaggcacca gtaaatcccc tgaagaatac 360
 aagataaatg atgtatcaac agatattctt ttatgtatct ccagcatacc tgacatcaaa 420
 atttcaagtt tgtcagatga agaatacgaa gaggaagaat g 461

<210> 16747
 <211> 460

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-015-Q1-K1-E9

 <400> 16747

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 agagagagag agagaaggat ctaggtcaca atatagacga aaaccaatcg gagacgaatg 120
 gtcgtcgcac tcgcacgagg gctgattcct ttccagctcg caccgcggtt gaacagcggt 180
 tcgttgtttc ctccccaact tccaacacgc ctcgatctag atccactctt ccccttcttc 240
 cttccgggtcc tccccccgag actattcata taggcgggta ggcgtccgag gcctcgtttg 300
 ttctcggtt cttgtctcca aggggtgtac tccgtccgcg cttggtctgc tctcgtcctt 360
 ccggaggccg cggcgcaaca tggcgaagat caagccgaag gccttgctcg cgcaaagcaa 420
 ggtgaagaag gtccccggcc aaatcagcgt ggccacgatc 460

<210> 16748
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-015-Q1-K1-F3

 <400> 16748

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 agaacatgta aagtaaaaag gaatattggg ttggggcaat ataaaactca atattatgta 120
 aagaaattta aagatgtctg tgttacatgt ttatcatatt cactcaaagt gggcaaattg 180
 atgtgaactt gtgaagcatg cagagtgaat atggggccgt caagtgtagc tgcattcttc 240
 actagacaat ttacattttc ccc 263

<210> 16749
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-015-Q1-K1-F6

 <400> 16749

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tgagcatagc tcagtacaat aacaccacat atttcagaag ccacacacat tatttagata 120
 ggtttccact catactacac aagggacttg atctgagaac ctggcgatat gcaacatata 180
 atatgtgtct atatatagat cggataccat catatgatga gtggaaggct atatatgtat 240
 gcatgaactt tagggaatgc aaccaggagc taagtatgag ggttgcttga gaggggttgct 300
 cgaccaacca ggagctaagt atgaggggtg cttgagc 337

<210> 16750

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-G2

<400> 16750

ctgctcgtac tcgggtccgga attcgccggg atcgactcca acgcgtagcg cgtgtccctc 60
 tctcgcac 68

<210> 16751

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-G9

<400> 16751

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 acgaccagca acgagatctc aaaatgcgca ctgttactga tcagacacaa ctggagcacg 120
 acaacaagaa tgcttgagagc ttctgcctga tgggctatag tctacgttca agtgaagca 180
 gcatcctgcg tgccccctgg ttttcctgga gctgcctcgc ggatgacccg gagggactcg 240
 gcgaagtcgt ccaggagctg acggccatcc ggaaactgcg cttcgtctac cgacaggact 300
 agcttcacgg agtttatgta gctctggtag tgcacagtca gggcatgtgg gtggccgtag 360
 gtgctgngcg cgatgtagac gatgggg 387

<210> 16752

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H4

<400> 16752

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tgggtggatt tgctgaagtg caatcttctg ctgggaactc gcaggatagc gtgcaatctg 120

ttacagttaa ggcaaagaag gctagctgga gcatgggctc ttcttttccc cttaagaaaa 180

caacgaaagc ccttaccaag attcaaattg acgacgactc tgatctgatt gatgaagaca 240

gtctcttgac tgaggaggac ctgaagaaac cacaacttcc agttgttggg gactgtgaag 300

tgggggcagc aaagaaagca tgcaagaact gtacttgtgg cagggtgaa gcccgagaga 360

aggttgggaa gctggagctc actgcggagc agatcaataa ccctcaatca gcttgtggca 420

gttgtgggtt gggatgatg 438

<210> 16753

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-H6

<400> 16753

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tgggtggatt tgctgaagtg caatcttctg ctgcaaactc gcaggatagc gtgcaatctg 120

ttacagttaa ggcaaagaag gctagctgga gcatgggctc ttcttttccc cttaagaaaa 180

caacgaaagc ccttcccaag attcaaattg acgacgactc tgatctgatt gatgaagaca 240

gtctcttgac tgaggaggac ctgaagaaac cacaacttcc agttgttggg gactgtgagg 300

tgggggcagc aaagaaagca tgcaagaact gtacttgtgg caaggctgan gccgaggaga 360

aagttgggaa gctggagctc actgcggagc agatcaataa ccctcagtca gctt 414

<210> 16754

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H8

<400> 16754

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<210> 16755

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A6

<400> 16755

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gttcgggctc tccctggtga agctggacat ccggcaggag tcggagcggc acaccgacgt 120

gatcgacgcc atcaccacgc acctcggcat cgggtcgtac cgcgagtggc ccgaggacaa 180

gaggcaggag tggctgctgt cggagctgcg aggcaagcgc ccgctgctgc ccccgacct 240

tccccagacc gacgagatcg ccgacgtcat cggcgcgttc cacgtcctcg cggagctccc 300

gcccagacgc ttgggcccct acatcatctc catggcgacg gccccctcgg acgtgctcgc 360

cgtggagctc ctgcagcgcg agtgcggcgt gcgccagccg ctgcccgtgg tgccgctgtt 420

cgagaggctg gccgacctgc agtcggcgcc cgcgtccgtg gagcg 465

<210> 16756

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B1

<400> 16756

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gcctggccta ctgcgcggcg ccgcgctcgt cgtgctggtc gcggtggcgg cgtcgcctgc 120

ggcccacgtc acgtcaact gccccgtgca gccggcgccg tcgcatctgc cgcgctccac 180

tccgacgccc aacaacctac tccagaggct ggagaagctt gtagaagggg cgctggacgc 240

gccggaggac gtgtacgtgg acgcggcgcc tggcggcgcg ctgtacacgg caaccaggga 300

cggatggctg cagcggatga tgaacaacgg ctctggggag cggtgggcgt tcgtcggcgg 360

cacgggcctg ctcagggtcg cgccgtccga cgactgcacc atgctcgtct gcgacgccga 420

caaggggctt

430

<210> 16757

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B8

<400> 16757

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cgtttggttg atcatcgcac tgatcaggca gccatggcta ccaaagccaa atcaagctcc 120
tcgtcatgtc tctccttctt gaaggacgcc ctgctccttc caaccaagaa cgccaagctc 180
ttcgtccttg tcttctctct ggtaaccgct cccctcattc ttctccagat caccaatgtc 240
ttctgcatcc agccgcgcac agccgacatg ctgcaccaca tcaacgagat caagaacatg 300
gacccctcaa gcgccgatta cgccaagctc atgggtggaga tcatgaagga agccaaggag 360
cttgccatga tctccatcgc gctcctagtc atcacctttg caggaagctt tgctaaacag 420
atcatagcct tcttcgccac ctccactacc tacgccggtg 460

<210> 16758

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C3

<400> 16758

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tcgatctaca acaagttgca caatggacag aacactgatc acttctaacc tctccatgag 120
tgcacatgct tcaagatcgt cccggagggt tctactacatc tctcctgcag cctctgctgc 180
tgcacacaac tccagctaca ggaagaagaa gaagaactcc ccgtctacgc cgacgtcggc 240
cgacgcaact gacaccgttg tcatctccca tcttgccact gacaatgttc agtgcaactgc 300
tccgaatcag gccggccgac atgagcttga agagctcgtg gccgccaaga ctaacacggt 360
cagaattgct actgcaagaa caagtgcctc gagccagtct cgggctaagc ttgaacgccg 420
gcctgccccg ggaatcacg 439

<210> 16759
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C4

<400> 16759

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aaaaatatcc ggcgcacccc gaccttcgcc tcggactccg ggcagcaagc agcagccagc 120
aggcatgggg atacctgtgg tggttcccgt cgaggcggac tactcgtgct actactccct 180
cgacgcgcca ccgagggccg ccgcccacgc ggcgagggcg ccgagcccg cgacacgtcg 240
ggcgggccggg atgtcctcca cggcgctcta cttcgccggg atgcagctga agcgacctcg 300
cggaggtggc cgcctaagca gccgatcggc ccaagagagc ggcctccgag tgaggcggcg 360
cgctcttggt caagagcctc ttacggctcg gcgtgccgga gctcagagtc atcgccggcg 420
tcgcacgact cgtgttcagg cccaagca 448

<210> 16760
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C9

<400> 16760

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tcgggcgcgg cggcggcggc ggccatgagc agcgggagcg agagcactac cgccagcagg 120
tgccccgagc tggccacgct gcgcgccttg gcgcgcgacg ccgcggagca gctgcggctg 180
ccgcggggcg gcacgtcggc gtcggcgctg gcgtcgtcgt cgccgtggcg cgggcgcgag 240
gaccacctcc acggccacgg caagacggcc aaggtgatgc acctgctgct ctggggaccc 300
aagtgaagcg gcgagaggcc accgtaccgc cggcgttgct cgttttgctc tgctgcaat 360
ccgccccgca cggactgtac tgtactgtac ctatacacct atatactacg acgtgcacat 420
gtacgagtct acgacgt 437

<210> 16761
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-D12

<400> 16761

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 tctgtaagct tcccttgacg tcgtcgctgt catccatgga gagcaaggac ggcacccacg 120
 atccccccac gacggccgcg ccaccggccg gcgcgcccga gcccgcgatg ccttccgctg 180
 agacggcgcg gtggggcacg cggcagatgg gcccgacggc ggcccccggg gcgcacccgg 240
 agaaccagga ggcggcgcg tggacggccg cgcgcgggga ccaggagctg ccgccgtacg 300
 tcatcatcgg tgagcccgtg gcggcgccgc cgccacagca taggggcaag ggggacagcc 360
 ccatggagca catcctcgac ttcttcaaca cctggagccg caaggccgag gagctggcct 420
 acagcatctg gttcaatctg 440

<210> 16762
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-D3

<400> 16762

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 accgtctcag ctgatcgca acgcgctcgg catggcgctc gaggtgtggc tatcgccggc 180
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 aaccgcctct gtgtctctct cctgtccccg acctgcccgc gccctgctg tgctgcgtgt 300
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 cgaggtggtg gacaggaaca tgctgccta ctgcagcatc gacaggaagc agaagaagac 420
 gctgggagag atggagcagg agttcctgca agcccttcag 460

<210> 16763
 <211> 451

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-016-Q1-K1-E1
 <400> 16763

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 agtgatttcc acaatctgcg aactgaatgt ctcaagcagc aatacaactt ggtcaaggat 120
 aggacagcgg ttcaggatac attcagctat ggctcccatg tgatgcaata tggttcattg 180
 gagttgaatg ttaagcatct gctttcgtac attggcacia accctgctaa cgatgacaac 240
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 gaccttgtct acttctggca gaagtaccgg aaattggcag acagctcacc tgagaaaaat 360
 gaagctcgga gggagttgct tgaagtgatg gccacaggt ctcattgtga cagcagcggt 420
 gagtcattg gaagccttct ctttggtct g 451

<210> 16764
 <211> 474
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-016-Q1-K1-E10
 <400> 16764

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 ctatgtccct tgctcacctc cctggctgtg ctgcgcggga cactattctc tagccaacta 120
 ccgtcggtgg aagccctgcc atcgatatcg catgatattg gttgtcttct tcgaccacgt 180
 cattgcctca caggatttgg acaccttgtc gacactcgac cacgtgttcg ctcgttacca 240
 cgccatcttc agcatcatgg ttctataaga ctccgcgcac tcatcggcac ccggctgtca 300
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 accagaattt atcaatatc tcacaagtat tgagtcacgt ttgaatgctg gtaagcaatt 420
 tatttgctta gtaattntag ggctttgccg gtaggcgcta tcggcattnt atgc 474

<210> 16765
 <211> 395
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-016-Q1-K1-E11

<400> 16765

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ctgctgcatg aatctctgtc attgttgtcc gatgataccg gtggtcgtgt acaaccacat 180
ggttacctaa cacgattaga acagcatggg gcaccagaac cgcggggggc acgcggagta 240
ggcgttcgcy cggacggcga acgatggcgc gctggccgct catgnggaca cgatgagcat 300
ccgggcagcy cgcttcaata tcagcgacag actgtactcg cgcgaccacg agaccgtgct 360
gccgctggcg cacggtagac ccctcggtgt tcccg 395

<210> 16766

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E7

<400> 16766

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gagttccatg tctaggaatt ttaatgcagg tgtaaactac ccgatcaatc ctacaaacat 180
gagtgccttt gctgcccttg gaaatggggg tggcgtcaat tatatgggtc tcccttctat 240
tgcccctgag ttggcccagt tgggcaacat ttcaagcctt gggtcaggga acttttagccg 300
tggagctgga gttaataact taagtttacc ttctggctcc tatgggagga gcaattcaac 360
tggtacaatt ggtgagcctt tttctgcac aggcaatgca tatgaagtga 410

<210> 16767

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F1

<400> 16767

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gatggcacgc ccaagaggct gacctacgac gagagccaga gcaaaacgta catggagggtg 120
aagggcacgg gcacagcgaa ccagtgcccg accatcgacg gcggcgtgga gtcgttccccg 180
ttcaaggccg gcaagtacca gatgaagaag ctgtgcctgg agccgacgtg cttcaccgtc 240
aaggcggagg gcatcggcaa gaacgccccg ctcgagttcc agaagaccaa gctcatgacc 300
cgctcacgt acacgctgga cgagatcgag ggcccgtcg aggtcgggtc cgacggcacg 360
ctcaagttcg aggaaaagga cggcatcgac tacgccgccc ttaccgtgca acttccggga 420
ggcgagcgcg 430

<210> 16768
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-016-Q1-K1-F10
<400> 16768

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ccaccgccct cgttcctccc ccgccggcga gagatctacg agatgggtgct gtcacacggc 180
gtcgggtggct ccgatgagtc cgtccactcg acgttcggt cccgctacgt ccgcacctcc 240
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aacgacgagc tgatgctgga cgggaacccg cggctgaacc tggcgtcctt cgtcaccacg 360
tggatggagc ccgagtgcga caagctcatc caggcctccg tcaacaagaa ctacgtcgac 420
atggacgagt accccgt 437

<210> 16769
<211> 312
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-016-Q1-K1-F4
<400> 16769

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gacgatagcc acggggctgg acctcctcag ctgctcgatc tgcattcttct tgtcgtcagc 120
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 tgccgaattt gtagcctatt cgagagagag ttgacggctt tgtccaataa tcaatactgg 240
 atttttaaga ctctcttcaa cgggtgttctc ttcataaaat atataatgag aaatgtatga 300
 tacaatttat ct 312

<210> 16770

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G3

<400> 16770

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 ctgcgatttc cagatggagc ggtatgtctt taagcgtcgc accgacggca tctacatcat 180
 caacctgggc aagacatggg ataagctcca gctcgcggcg aggggttattg ttgccattga 240
 gaacccgcaa gacatcatcg tccagtcggc ccgcccctac ggccagcgtg ctgtcctcaa 300
 gttcgcgcag tacactggcg cccatgccat cgctgggagg cacaccctg gtaccttcac 360
 caatcagctc cagacctctt tcagcgagcc tcgcctgctc atccttactg acccaaggac 420
 tgaccatcag ccaatcaagg agtct 445

<210> 16771

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H5

<400> 16771

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 catcggaagt gtttgcgga ggagtgcctg cactaactat ttatcttcag ttgggtgtcg 180
 tgtagccaac ttgcgatgct aaggcgcata tttcagtttt tttagagtaa aaatgcactt 240

tacatcctgc cgccaaactt aactatgggc ctgtttatgc cctgttttgg ttagctttt 300
 ttttaccagc ttttctaaaa atctggttgc ggaaagaatt tgagtattgt gaagatta 358

<210> 16772
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-016-Q1-K1-H8
 <400> 16772

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 tactatacta ccgtcttggga caggaggagc gtcaagacga atccactaaa cgggtgcagca 120
 tacgatgttg gtagtggatg ggccgaaggg attggttaaa aggggtcccga acttgaccaa 180
 cggactgctg cacaacaagc tgtagaaggg attgcaagac acgcacaacc ggatgggtcaa 240
 agaacaggcc cttcattgct aaacgtagct ttcattggaag gtttaacaag ttaaggactg 300
 gttgcggcac taacgcttgt atttgcaaac ctttttgttt aatcctaaaa acgaaaatga 360
 gtccgttaga ttagatacta ccaagtttgt ttagcacatt ggcattggct taagcaattc 420
 taagtatatc aa 432

<210> 16773
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-016-Q1-K1-H9
 <400> 16773

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 gaggagccct tcgccccggt ggctgcggtg tcgcactggc tgacacctgc tcgcagttgc 120
 attacaagtt ttactgacta tgtattttca ggtttattca atttcgggtc taatgcttct 180
 gacagcagtt gtatcagtc tcttggttcag cttacatgta tccctcgcat ctttccttgg 240
 atccacataa gtgttaataa taattttgtt gcatctcttc tgctgatcag agctttcaaa 300
 ctcatgacag aataatgtac taaacttcag tttggtgtct atctcagtg acctacactc 360

agttggaaaa cttcaaccac actgcnaaca ggtttataaa aggaaaaaca natttatggg 420
ctcaaacaaa gtgtgatagt g 441

<210> 16774
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A11

<400> 16774

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tatttatattg ctaattaatt ggtaacagag ctgcacattt gattactgat gtgctgaatg 120
gactattcct ccataattcg ttttttttgt ggcgctgcag agacttcatt tcatttttaga 180
attccattat cttgcttgct tgtatgagtg ccatcatttg tacccaaadc tctcattatt 240
gacctctact atattatcgt caggattcaa ccaccactac agcaaacactg tttccatata 300
tatctagctt atcaaggctg ttctgcatgg acctgcttca gttcttttgt gtaaagtggg 360
ttggctgaaa tattttgggt aactgcagtc tagtatttag tgccagttgc attgattgca 420
aatttcaaga tggcgaattg atgatgtttg 450

<210> 16775
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A3

<400> 16775

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atggaaaagg ctgccaaata gggttgaaaa accagggcag gggaaattcc ggttgaggca 120
ccaaatgaga aaccggaatt taagccagat gctggcccac aagtttgtga gaccaaagaa 180
tgtgaaatta cagtagaggc accagatgag aaaatagcat acaaaggatg tgttgaacca 240
ataatcaggg agataactga agatcaaact gcagctggag aaccagatga agaagctaca 300
acaactgagg aaacggtaga ggatgttaaa gtgctagatg ataagtctac agcagatggg 360
aaacctgtag agaatgccac agtcgcgaca aatgaggatt caacaacagt tgagaatact 420

ctgaagggat gcatggttgc gccaccaggt acaaata

457

<210> 16776

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A8

<400> 16776

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cctctccagc tccgttggag ctccggacag cagcaggcgc ggggcggtca cgtagtaagc 120

agctctcggc tccctctccc cttgctccat atgatcgtgc aacccatcga gctacgcgcg 180

tggactgcct tccctgggtc ggcgcaggag gggatcgga ggatgacggc atcggtttcc 240

agggccatct gcgtacagaa gccggggtca aaatgcacca gggacagga agcgacctcc 300

ttcgcccgcc gatcggtcgc agcgccgagg ccccgccacg ccaaagccgc cggcgatcgc 360

cgctccgact ccggcgcggg acggggccag cattgctcgc cgctgagggc cgctgttgac 420

gccgcgccga tacagacgac caataagagg gtgttcact tcgggcaggg ca 472

<210> 16777

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B1

<400> 16777

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accttggcca atcccaggcc ccgctcctgc ttccggttcg ctccggcgcc gccgtgtcca 120

tgcccgccat gatggacact gtgctcaacc tgccggtcaa cgacgaagtg gccgccgggc 180

tggcggtcaa gagcggcgag cgcttcgcct acgactgctt ccgccgcttc ctgcacatgt 240

tcggcaacct cgtcatggac atcccccgct cactgttcga agagaagctt gagcacatga 300

aggaatccaa ggggctgaag aacgacaccg acctta 336

<210> 16778

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B11

<400> 16778

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cgctgcctga gctctcacat ggagccgtgc caacgcgcac gcatctgtca cgaccttctg 180
cagaatcaca cgaatagtta tacgaccacc gagacctgtg cagagtaaaa tagctgggtgg 240
acgtactagc cctggcaagt tcccagagccc ttcaccgtag tatgacactt gcttgggaga 300
cctgcatagt gttgcttgga tggaagacag tgatttcac aatctgcgaa ctgaatctct 360
caagcagcaa tacaacttgg tcaaggatag gacagcgggt caggatacat tcagctatgg 420
ctcccatgtg atgcaatatg gctcattgga gctgaatg 458

<210> 16779

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B3

<400> 16779

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caaattggta ttcttggtga taccggggaa cctaaactgc tgccgttgca aagccaaaat 180
aaccaaggcc tggactggct taaaagagga gttctgcatc gagaaagtga agttcgatgc 240
caagaaagag aagaaagggtg tgtgggtgcg tggaagttcg acgccgagaa gctctgcaag 300
aagtgtggtc caaggccggg aaaatcgtga aggggattgt catcgctgag gtgtggccaa 360
taccagcccc gcccaaggag tgcaagcctg aggcaccgaa atgttgcgac tgtgagaagt 420
gcaagccgaa gcctaagccg gagccaccga aatgttgc 458

<210> 16780

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B4

<400> 16780

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tcgctcgtca aaaggaaatg aaacactgcg cttcaactgg ttgacagacg actcatagca 120
taatgggtat actggtgatt acggtggacc tagactgctg tcgatgtaaa gccaaagatca 180
ccaaggtcct ggactgtctc aaagaggagt tctgcatcga gaaagtggag ttcgatgaca 240
agaaggagaa gaaggtggtg gtggtgcgtg ggaagttcga cgccgagaag ctctgcaaga 300
aggtgtggtc caaggccggg aaaatcgtga aggggattgt catcgctgag gtgtggccaa 360
taccagcccc gcccaaggag tgcaagcctg aggcaccgaa atgttgcgac tgtgagaagt 420
gcaagccgta gcctaagccg gagccaccga aatgttgcca ctgtgagaag tgca 474

<210> 16781

<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B5

<400> 16781

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cccctaaatt aaatta 76

<210> 16782

<211> 537

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B7

<400> 16782

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cgagcgtcaa gcacgtcacg ttgtcgtgaa gcctcaagtt gagaaggaag cacacagtgc 120
tctgactcga tggctcgtgcc catgcctctc ctcgctccggc ctgtgcagct gcgtgtggcc 180
gtccccgctg cagtaagggt cgtctcgtag cgctcggtcgg ccgaggggaag ggcgccactt 240
gcgtacgtca gtggcacatg ctccagctcc ttccagcaca atgcaagggt gcccgacatg 300

gcacgctgtc ggttctgcgt gccatagcag tcgccttcac ctacactcga tgtgcacgct 360
gcctcggacg actcatggca ttcgacccgt ctgggctctc tcggactccg gagggcatcc 420
gggggccttg atcgagtccc aagtgcgctg gtctatggcg aggtgatcaa cggccgctac 480
gccatgctgg gcgcggtggg cgccatcgcc ccggagatct tcggcaagat gggcatc 537

<210> 16783
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D3

<400> 16783

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acccgcccatt tgggtgcccc aacccttggc gggggacctt tgggtcaact gcccccggtt 120
ccccgcccc gttccggttg gtcaacccta cccctaggaa gttagggttt gatgctataa 180
aacctccagc gaccggacag gaaaagagaa tagagctcaa atcttgatg cgcccgaacc 240
gattgcgaca cctgccgcag agaagcctgg agatgtacag atccgtgatg ctcaggcgga 300
caccctcgag acagagttcg ccgtgatccg cgacatcgct gacgactatc cgtatgtggc 360
tatggacact gagtttccgg gcgttgtgag tcgtccgctc ggcaactaca agtcggcggt 420
cgagttcaac tacgccactc ttaaagctaa cgtggacatg ctg 463

<210> 16784
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D4

<400> 16784

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cattgatgac cccaacaatg gacgggtgcc tgttcgtaca ctggcaccg ctaccctac 120
ccgctaacgc tcgtccacgc aaaccctaata cagctcgggt atgatactat aacagctgca 180
gcaaccgacg aggagaggag aataaagctc aaatcttgta tgcacacgaa ccgatggcga 240
cacctgccgt agagaagcct gaagacgtac agatccgtga tgctcggaca gacaacctag 300

agacagagat cgccgtgata cgcgacatcg tctacgacta tccgtatgtg gctatgcaca 360
ctgagtttcc gatcgttgtg agtcgtccgc tcggcactca caagtcagtg atcgacttta 420
actacgccac tcttaaagct aacgt 445

<210> 16785
<211> 252
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-017-Q1-K1-E1
<400> 16785

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accaatttct acaacttggg ttccgtaaca agctagcaac tgaacgaggt caactcttac 120
gcccgccgac agagacggag gcagctgcta agacaccgga gggatatccg gcacctgcca 180
tcatccacca cccgataccc acgtcttgta ccgcgcagat ctgctgctgc ccttgagatc 240
taaatacaag ct 252

<210> 16786
<211> 435
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-017-Q1-K1-E3
<400> 16786

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cgggctcttc ttatgtggga taccggagg gcggtctttt ccttcccggg cgagtttttt 120
ttaaacct tagcttccga acctggcaat tgtcactgat gccattgcat gtgtacctgg 180
tttaagtga ggtttccgtt caaaagaaac ctgacaggca aagaaggagg aggataagaa 240
gggtgaagac aaaatgcttg natggggtgg catgacgata agaagctgat gattcctgct 300
acagtaattt taaagcacat gttcactcct gctgagctga gagctgatga agagcttctt 360
cctgagcttg aggctgatgt tagagaggaa tgcataagtt ttggtccggt ggataatgtc 420
aaggtttgtg aaaat 435

<210> 16787
 <211> 467
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-E9

<400> 16787

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 ttccagcgcc tagcttctcc accgcgttgg ctgctcctcc atcgccagtc tgctcgccgg 120
 gatgcccctg ccctactcct cgggtctcct attctgccac ggccgctgct catcgcgccc 180
 agctgaagct cgccggactt ccctgtttct ctctctccgc tgctcgctcg gtgtccggtc 240
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 agcttctcct cgacagcgcc cctgtttctt ttgggccgga gcgcccctctg ctcggcgtcc 420
 ctgctgctc gccggggaaa ctctttccct gctcgccggc agcaaca 467

<210> 16788
 <211> 463
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-017-Q1-K1-F1

<400> 16788

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 ccgcgcgctc gtcggcaagc cggcgaccag caccaggagc gtcttcggcg aggggagcat 180
 caccatgcgc aagactgctg gcaagcccaa gccagcggcg tccggcagcc cctggtacgg 240
 ggccgaccgc gtctgtacc tggggccgct gtccggccag cccccaagct acctgaccgg 300
 cgagttcccc ggcgactacg gctgggacac cgcggggctg tccgncgacc cggagacttt 360
 cgccaagaac cgcgagctgg aggtgatcca ctgcgctgg gccatgctgg gcgcgctcgg 420
 gtgcgtgttc ccggagctgc tcgcccga cggcgtcaag ttc 463

<210> 16789

<211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-F10

 <400> 16789

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 tcttactact atgctgggtcc tcatactact cctactcctc tccgccgccc ggcgggcggt 180
 ccttatggag acgtctctcc ttgcgcccc ggtcctccc gacgacctcc tcccgtcct 240
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 gctcccgat ttgctcaag ccgtgcgcg gaccaagtcc gacgactcct accggttcgc 360
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<210> 16790
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-F4

 <400> 16790

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 tagctagcta ggataccgcc ataccacaag tcttcttcac aagtttagga gtgacagcaa 180
 caagagatct cgatggccta tgccaccgtg ctcaagtcct ccttccttcc caagaagtcc 240
 gaatggggcg ccaccaggca ggccgtcgcg ccaggccgt ccaccgtctc catggtcgtc 300
 cgcgctccg cctacgccga tgagctcgtg aag 333

<210> 16791
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-G1

 <400> 16791

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tcaaggtcag ggtcccgaag ccatggcaga agaagccgt gagcttcttc aacgagggcc 180
tggcggacga gctgaacagg gagggcgctg gcgacctggg catatacccg gacgagaaca 240
tcgtcatgac cagctgcgcc atggacggtt acctcgacga ggggggggat cggcgcaagc 300
tggatatcgc gagcgggtgc acggacccca gctgctacat gttcgacccg ctgggcaccg 360
tcgacgacgg ctgctgacca ctcgagtctg attccgagga atgaagcttc agttcgatcc 420

<210> 16792

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-G2

<400> 16792

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caggaagcaa tgaacatgtc cagatgctgg agagagctca agtatttgat ggacacaata 120
gctgggaatt ccaaaaactg catctcgtca cagcctcgca gattggatgc gtgattcaca 180
cggctggttt ggcattgttt gaacacatga gaaggaaggg ttgttccata cggttggaag 240
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aataaattgc atcttcctgc tttctttgtg ttgtgctcct tttctctatc ctttttcttt 360
tctagaaaaa aaaagagtga gacactatac gtgtttgtta cctgcaagtt ttatgtttct 420
tttctgtaca agtatatgga ggattttttt gggggcaatt gtaaagcttt g 471

<210> 16793

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H10

<400> 16793

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aggggactgg agagagcatc aatgagaagg accgctgtcc aggggtgcaag ggtgagaagg 120

tcattcaaga gaagaaggtt cttgaggttc atgttgagaa ggggatgcaa cacaaccaga 180
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 acaacaggca gcttctcatc aaatcagacc ctggatgaagt tgttaaacct gaccaattca 420
 aggcgattaa tgatgagggg atgccaattt a 451

<210> 16794
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-H12

<400> 16794
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 accaatctca tgacctgtct cacgtacacg ctggacgaga tcgaggtccc gttcgatgtc 180
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 accggcaagc tctagagctt ccgatgtgcc tttctcgtgc ccagctaccg tggctccttc 360
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<210> 16795
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-H7

<400> 16795
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 gtcaagatcg cacgcggccg gcgacaagca gatcccatag agaagggaac cctagacgaa 180
 ggtagctaga tacggttgag gtctgagcac gagaccgtct catcaagctg ttcgagaaga 240

ccatgcccgt gccggagacg gccgtcatcc gcgaggctgc caaggacatc caacagagcg 300
ccagaagcct cttcggcacc actgactcaa aatgacagga gaacaacgtt caagactcca 360
caagctcgcc tacgtaacac gaggtccatt acaccgaata ctcgtcggaa g 411

<210> 16796
<211> 445
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-018-Q1-K1-A11
<400> 16796

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aaggattata aattgactta ctacaccccg gagtacgaaa ccaaggatac tgatatcttg 180
gcagcattcc gagtaactcc tcagctcggg gttccgcctg aagaagcagg agctgcagta 240
gctgcggaat cttctactgg tacatggaca actgtttgga ctgatggact taccagtctt 300
gatcgttaca aaggacgatg ctatcacatc gagcccggtc ctgggggacc agatcaatat 360
atctgttatg tagcttatcc attagaccta tttgaagagg gttctgctac taacatgttt 420
acttccattg tgggtaacgt atttg 445

<210> 16797
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-018-Q1-K1-A3
<400> 16797

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atctaagatg agggagacat ttgtaaggctc tgatgaaacc aatcttgatt tgactgatct 180
tggaatgcac ttttctttat tcataacact gcttcatatg gtgagaaact tgagagcata 240
ctcagatcga atgcatgctt tggcatgtat ttgtcggact gctctttgtg ttcattctttt 300
tgcaaaggag agtgtccgaa gaggtcaciaa gcctgttcct ggaacagatg tgatatcgct 360

ctttgaagat gtcaggctga aggaagatct aaacagcgta acaagcaaaa acttgttcag 420
agaagagcta gtggctgccc tagt 444

<210> 16798
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-A6

<400> 16798

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accgccacat cgaggcaggt gctttcaaac aggccgcaa ggtcgccgac caagttctca 180
aggcagcgcc gggagatgag gacgcggtgc gatgcaaggt ggtggcatac atcaaggccg 240
acgagatcga caaggcgctc gccgcatcc gcgccgctga gcgccttcg atcgatctca 300
gctactacag ggcctactgc tgctacaggc aaaacaaact gcatgaggct cttgagcttt 360
taagaggcca agaagaaact tcagctgttc tccagctgga atcccagatc ttttaccgac 420
taggaagaat gaatgattgc atgagtagct atgagaagct t 461

<210> 16799
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-C10

<400> 16799

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ttaaactta gggttccacg aatggggacc ttgatggact aaaattttgc gtggagagcc 180
aagacatttg gaaagacaat tacatgttgc aattggataa ccgctccggc gtcgacggg 240
cggcgttggc gtttcggcaa tgggatatat actcatgtgc catcgcg 287

<210> 16800
<211> 465
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D12

<400> 16800

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gcgggagctg gtggcggagc tctgtcggca cttctacgag cagggatggg tcacgggcac 180

cggcggcagc atcacctgca aggtcaacga cccacacgtg ccgctcgccg atcgctcat 240

cgttatgtca ccctccggtg tgcagaagga gaggatggta gcagaggaca tgtatgtgat 300

ggctgcagat gggaaagtgc tttctgcgcc tgtagcaaag ccatggccaa acaagcctcc 360

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<210> 16801

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D3

<400> 16801

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caatccttat gggttc 136

<210> 16802

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D7

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ctccttcggc gagggcgca tcacatgag caagaccgtg ggcaagccca aggtggcggc 180

gtccggcagc ccctggtacg gccccgaccg cgtcaagtac ctcggccct tctccggcga 240
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 ggccatgctc ggcgcgctcg gctgctgtt actcgagctg ctctcccga acggcgtaa 420
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<210> 16803
 <211> 457
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-E10

<400> 16803

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 ggcgggcgcg gcagcgctgc tgctgctgct cctcctgtcg ctcgcccgcg cggcggacat 180
 gtcgatcgtg tctacgggg agcgcgagc cgaggaggcg cggcggatgt acgcggagt 240
 gatggcgcg caccggccga cctacaacgc cgtcggcgag gaggagcg ggtaccaggt 300
 gttccgggac aacctccgt acatcgacgc gcacaacgcc gtcgtcgac cgggcgtnca 360
 ctcttccgc ctcggcctca accgcttcgc cgacctcacc aacgacgagt accgngccac 420
 ctacctcggc gccagtacca ggccgcagag ggagaga 457

<210> 16804
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E7

<400> 16804

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 gatcatagat ctacgcgtat gacgtggata tcgcgaatag cggcggctgc agacaaacga 180
 tcacatgct actgtcgctg atcatcgttc agaactgga gccgtactac caagatctgt 240

ggtaactgtt cttcatgcag tgcagcgaca gctactacac gcgcgccatc aaccggttgg 300
 tggagacact gtactatatg aacttcctca acaagacgtg catcaacgtc ctgctcgact 360
 acatcgaggt ca 372

<210> 16805
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-018-Q1-K1-F12
 <400> 16805

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 tgacaagaaa tcatttgtgt cttacatcaa aaaatacatc aagaatctca ctgctgtgtt 120
 ggagccagag aaagcggatg agttcaaaaa ggggtgctgag ggtgcaacca agtttctcct 180
 tagcaagctg aaggacctcc aattttttgt tggtagtcc atgaaggatg atgcgtctgt 240
 ggtattcgcc tattacaagg atggtgccac taatccgaca ttcctctatt tctctcatgg 300
 tcttaaggag atcaagtgtt aggcgtgcgg cgaaattagt taccatgtt gggactatc 360
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 ttgtttga 428

<210> 16806
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-018-Q1-K1-G5
 <400> 16806

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 gacgacgacg aacgctggcg ctctgtgtg gaacgacaac gaggcgctga ctgtggggcc 180
 tcgcggtccc atcctgctgg aggactacca cctgatcgag aagtgggcgc acttcgcgcg 240
 ggagcgcac cccgagcgcg tgggtgcacgc gcgcggggcc tacgccaagg gcttcttcga 300
 gtgcacccac gacgtgacgt cgctgacgtg cgccgacttc ctgcgcgcgc acggcgtgcg 360

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398

<210> 16807

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G7

<400> 16807

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tgtgcgagat cgatggacaa catctcagcg ccgacgccat cgtcggtcac gacggctgcg 180

cttgggcgca ttccgagagc ttccccgagt taaagcctga ggaggttgct ggtatcataa 240

aggactttga tgaacctggt actcttgac caactggtct tttcgttga cgtacaaagt 300

acatggtgat ccaaggtgaa cctggagttg tcatccgatg aaagaagggc actgggggca 360

ttactatcaa gaaaaccggc atgtccttga ttattggtgt ctacgactag ccaatgactc 420

cagggcattg caccatggtg gtggagaggc tcggcgatta cctgatcg 468

<210> 16808

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G8

<400> 16808

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tgtgcgagat cgatggacaa catctcagcg ccgacggcat agtttgtcac gacagcagcg 180

cttgggcgca ttccgagagc ttactcgagt taaagcctga agaggttgct ggtatcataa 240

aggactttga tgaacctggt actcttgac caactggtct ttgcgttga cgtacacagt 300

acatggtgat ccaaagagaa cctggagttc tcatccgatg aaagatgggc actggaggca 360

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catggcaatg caccatg 437

<210> 16809
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 16809

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 ggtcaaagct ggttcagttt ttgacaacat tttgatttgc gatgaccag actatgcaag 180
 acatgttgta gatgaaactt ttgctgcaaa taaggaggct gaaaaggagg cctttgaagg 240
 agctgaaaga aagaggaagg ctagagaaga agagggttaat taacatggaa tcttactctc 300
 tttctgctct ggctgctgtt gcctgttaac aattctgaaa ctgtgaatgt gagccttgga 360
 ggagttaaca ggacgttgct tttccacagg aagcac 396

<210> 16810
 <211> 486
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-H2

<400> 16810

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 aatatatcac ttaccgacat ggcgaacggt ctaaacaagc ttatgtagaa atgcactgac 120
 aggccaatac gcaaattgcat agaaaatctg gccgcgctta agggatgtcc tcagcgtcga 180
 ggaacatgtg ctaggggtgta tactatcaac cccaaaaaac ccaactctgc cttacgtaaa 240
 gttgccagag tacgattaac ctctggattt gaaatcactg cttatataacc tggatttggc 300
 cataatttac aagaacattc tgtagtatta gtaagaggag gaagggttaa ggattttacc 360
 ggtgtgagat atcgcattat tcgaggaacc ctagatgctg tcgcagtaaa gaatcgtcaa 420
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<210> 16811
 <211> 464
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-H3

<400> 16811

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cggccgcgct taagggatgt cctcagcgtc gaggaacatg tgctagggtg tatactatca 180
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ccctagatgc tgtcgcagta aagaatcgtc aacaaggcg ttctaaatat ggngccaaaa 420
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<210> 16812
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-H4

<400> 16812

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gtcgggaggt ggaaaattaa ttttttgtca acccaaaagt gggagaacct gttgatggga 360
tggaatctta ctggggatcc atatgcta atgtcggtgaag caggacttac gtttgacagt 420
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<210> 16813
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-018-Q1-K1-H6

 <400> 16813

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 tggtatctcc ggcgtgctct gggcatactt cctcctctac gtgctcgacc tcccctacta 180
 cttcaagtag aatacaaatt cataaagatg catatatata atatagctcc gcctccgatc 240
 ctctctctctg cgtgcaaagg tatgccattt cagcagtgc gagcatcgtg gatacatgca 300
 attcctctgc acatggatgg atggggatgt aacttgaac tgttaatttt ttttacttgg 360
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<210> 16814
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-A12

 <400> 16814

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 gctatttgta attctggata tgttaccga ctccgatgtt cttgatgata atgtttgaag 300
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<210> 16815
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-B1

 <400> 16815

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 ttcctctcca gcggcagcac cctccacccc tcatcaaccc aaccgcaag aaaaacccgc 240
 agcagagaag aggagtcgcc gtgaccgaga gctccagagc atgccccgc cacagcctcc 300
 gacgatggat ccaaagatga cagaggtgac ccagatgttc gcccgcttca agacggccta 360
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<210> 16816
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-019-Q1-K1-B12
 <400> 16816

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<210> 16817
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-019-Q1-K1-B2
 <400> 16817

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<210> 16818
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B3

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cgtcgtcaag gagccgcgct tcgt 204

<210> 16819
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B7

<400> 16819
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ttccgtctcc gacgaccaca ttgcaag 147

<210> 16820
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B8

<400> 16820

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<210> 16821
<211> 256
<212> DNA
<213> Zea mays
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<400> 16821

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aaaccttctg ccgtcgccaa gggcagggcg gcggctgtga cgtgcttcag cgggccctcc 180
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gctttcgcag cagctg 256

<210> 16822
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-019-Q1-K1-C3
<400> 16822

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gatgagtata cctgaaattt aggtctagaa attcactgct atcagtctca gaataggcta 180
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ttctgggtta ttgaccccaa tatctttatt actatatgtg cctgggtttgc ttaaaaaaaaa 360
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<210> 16823
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-019-Q1-K1-C7
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 ctgcaagcaa tttctaaaac attgtcacca ggattccgta tgaaccctat acagtttgaa 300
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<210> 16824
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-019-Q1-K1-E4
 <400> 16824

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<210> 16825
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E7

<400> 16825

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tcctcaaaga gatgtacaac gagtggccat tcttcagggt caccctggac ctgctggaga 180
tggttttcgc caagggagac cccggcattg ccggcttgta tgacgagctg cttgtggcgg 240
aagaactcaa gccctttggg aagc 264

<210> 16826
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E8

<400> 16826

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cgtcacgtac gtggagggca tgaacgccta cagcggcctc aagggggtca acaagggtgaa 180
catgctcggg gtgcgcaaga ccgccgacta ctcttcgcc aaggtcgtgg cgctcgtcag 240
ccccgcgggc aggaagcggc gcggcggcgc gttcggcgcc caaatgaacg ccgccgccga 300
aatc 304

<210> 16827
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F2

<400> 16827

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aggccgacgc tgactgccaa tgcaaactg gaactagagc aagatgggcg gctaactgct 120
gcttgcgctc ctctctgtct ctgctgctgc cgtccctcag gtactcggag ttggcaatgg 180
agacaatcac atgagaatca tccacgagga catcattgag acagtcaaca accataccaa 240
tgctgggtgg acagcctcac gtaatcctta cttttcaaac tataccattg cgcaattaaa 300
gcacatactt ggagggaaac caccaccaca gaatgcacta agcattgttc ctgtcaaaac 360
ttattcagga tcaactggga cttccaaa 388

<210> 16828

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F3

<400> 16828

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taggggaggg agttgttgca agcagccaag gcggttagca aaaagtggag ttgaaggttt 120
caaagatcac tgtgattggt aagagtgacc ccacatcttt tcctatacag aagaaacggg 180
catcaagaga gttccttaga actgtagccc atctccgtcc tcggacaaac acttttggtg 240
cagtggcaag agtgagaaat gctctggcat acgcaactca taaattcttt caagacaatg 300
gaattgtttg gttttaaacg 320

<210> 16829

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F6

<400> 16829

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gggaggggact tatgtcacca caaacagaaa gtaaagcggg tggttgattt aaagctgggtg 120
ttaaggatta taaattgact tactacaccc cggagtacga aaccaaggat actgatatct 180
tggcagcatt ccgagtaact cctcagctcg gggttccgcc tgaagaagca ggagctgcag 240
tagctgcgga atcttctact ggtacatgga caactgtttg gactgatgga cttaccagtc 300

ttgatcgta caaaggacaa tgctttaaca tcaaccgggt tcttggaac

350

<210> 16830

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F9

<400> 16830

ccggaattcc cgggcacggc ttcctcgac cggtccgggt cctcctcca tcaccatcac 60

caccgtcggt cctctcacga gtcccgacac acgcgaaccg cacgaaccct ggctggcggc 120

gggatgacgc ggcggtgctc gcaactgcgc cacaacgggc acaactcgcg gacgtgcccc 180

aaccgcgggg tcaagatctt cggggtgctc ctacccgatg gtcgggcat ccgcaagagc 240

gcaagcatgg ggaacctctc cctcctctcc gcgggggtcaa ccagcggcgg cgcgctcgccc 300

gccgacgggc ccgacctcgc cgacggcggg cggggggtac gcctccga 348

<210> 16831

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G9

<400> 16831

ccgctcctga attcccgga gaaaagcagt tcttcagcta ggcaggaggg cacaggaagg 60

aggagatggc gtcaaagagg attcagaagg agctcaagga tctgcagaag gaccctccca 120

cctcgtgcag tgcaggctct gttggtgaag acatgttcca ctggcaggca acaataatgg 180

gtccatctga tagcccatat tctggtggag tttcctagt cacaatccat tttcctcctg 240

attatccttt caaaccacca aaggtggcat ttcgtactaa ggtgttccat ccaaaccatca 300

acagca 306

<210> 16832

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-H10

<400> 16832

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acactcagct aagtagctga ctcggtatgc tataacaaga aaaggctcga catggccgag 120
gagaagaagc agggcctgca gctgctggac ttctgggtga gcccattcgg gcagcgctgc 180
cgcatcgcg c tggacgagaa gggcctggcc tacgagtacc tggagcagga cctggggaaa 240
aagagcgagc tgctcctccg cgccaaccct gtgcacaaga agatccccgt gctgctgcac 300
gacggccgtc ccgtctgcga gtcctctgct atcgtgcaat acctcgacga ggcgttcccg 360
gcggcgggcg cggcgctgct ccccgccgac ccctacgctc gcgcgcatgc ccg 413

<210> 16833

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-H8

<400> 16833

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gggtggggact gggatctttg ggctactgca gaatcttgaa ttggagcagc ccaagaatat 120
ctaaaatctg catttggtgc acgtctggcc aagctgcctt ctgaaggttt acaagttttg 180
gtcctgtcag cctttgcacg gcagaatgtg ctttagtttg ttactgtgtg gcacgctgca 240
tctgt 245

<210> 16834

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-020-Q1-K1-A4

<400> 16834

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ccctgctcgt gttgcccgct tccccggcca ccatacatgc gctgtccaga gaatcaagtg 120
ccagtgggtga ccagtctcac aattctttac ccaccatagc cagaacattc taaggagttg 180

ctggcctata tgaagcttgt tccataatca tctcatatca cgaagaagaa gtggaagtcc 240
 ctgaagagaa gactacacca cctttggagt ctcaagcagg gtctcggttc tacttttagca 300
 tctgcggggc tgagactaac tcaactatag accaaggta ggaagcgac 349

<210> 16835
 <211> 198
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-020-Q1-K1-B10
 <400> 16835

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 gaatcgcaac acaccatggc cattgacacg cgagcctgcg ccgtcacgcg ccattctgctg 120
 gccaccgctt gggcgccatc ggccaaactc cgttcacata tctctcagct cgcgctaccg 180
 taatcctgct aaatgctt 198

<210> 16836
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-020-Q1-K1-C5
 <400> 16836

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 tcctcccctt ccgattccaa tctgggtctc cggggcctgg cggcgaggga gagatgggga 120
 agaaccaggc gtacaaggcg atgcagcggg cgcggttggg gtctctgtcc ggcgcgccgg 180
 gcgcccgcga cgcgccgaa gacggcatgg tcgggtccct tcctctctcc taggagatct 240
 ctgtttccca tctgcacttc cgagttccag gctcgcaatc catcctgac tgattatttc 300
 cgcagccata ttactatgct aattatatac gatagagtag gcttcagcc gctgaggaat 360
 tttggctacc attccacttt cgctttgggt gaaagataaa gaaaaagaac tttggctaac 420
 gagggccgtc gcagac 436

<210> 16837
 <211> 289
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D9

<400> 16837

gaattccccg gtctgaagac agcatctatg gtattgcatg gagctcccat gatccatcat 60

tattcgcttc tttgtcatat gatggaaggg gggctcttga atcagtcaag ccctacttgc 120

agagaaaatg aaccttgtct gggttttctaa attctgagta gctttgcctt gccattctgt 180

agcctcttaa caagcatcta tgtgatgatt cggtttactg ttgtagcaat ggcagaaaaa 240

tggataacaa gattgttaca gaaatcaatt tttacgatgt tgtacaaaa 289

<210> 16838

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-G1

<400> 16838

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ccggggagcc agccttcata atcttcttgg ttttcgacgc tctggctctc ttcattctgc 120

tcgcggtcgt cgtgggtccag acgtctctga tcgtcgtcga acagaaggcc aagaagaaga 180

tggctctcgt gataaacaag ctgatgtggc tcgcgtgcct ctgcatctcg gcggccttta 240

tagcgtgac ctacgtcgtc gtggggccgag acga 274

<210> 16839

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-020-Q1-K1-G10

<400> 16839

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cccgtcgcgc gccgctcctc cagaagcctc ggcaacgtca gcaacggcgg aaggatccgg 180

tgcatgcagg tgtggccggc ctacggcaac aagaagttcg agacgctgtc gtacctgccg 240

ncgctgtcga cggacgacct gctgaagcag gtggactacc tgctgcgcaa cggctggata 300
 ccctgcctcg agttcagcaa ggtcngcttc gtgtaccgcg agaactccac cctcccgtgc 360
 tacta 365

<210> 16840
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-020-Q1-K1-G11
 <400> 16840

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 cttgggtccta ggcgaaaaca tgggtgtcggg gattggcctg gtgctgacgt tcaagccatt 120
 tttctcccta ccgaatccaa cgaggcattc ataaatctgt gtagatgaag cccgttcctg 180
 tgaattgtat cgatgcactg cctgattaca gttgggtttc aaactgcaag aattcatgac 240
 ttcatgtatt ggtgtgtggg ccatact 267

<210> 16841
 <211> 241
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-020-Q1-K1-H11
 <400> 16841

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 gcatcattgt tttatatata tacatatata tatatgtata tggatctatc taaaaaacg 120
 acaagaacca aaccaacaaa accaacacaa caaaccaaaa caacagcaac aacaaccaaa 180
 aagggccgcc cctcctaaag gatccaagct aactaccgct accatgcgac gacaaacccc 240
 t 241

<210> 16842
 <211> 104
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-A1

<400> 16842

tcgacccact cgtccgaggt gagagaagca tgccatccca cacctattcc tgcactgcac 60
acacaatccc tccccatgtg ctctgctgca actactacta tata 104

<210> 16843

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C10

<400> 16843

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tcctcttgcg cgcctccaac tctggacaga gcaaccagcc atggatgagg agtactactt 120
gatcgtacta tgcacggggc tcaagtagtg catcctcagc tgtctcctct ctgtagacgg 180
cctcaaggta ttgcatatgg acagaaatga ctactatgga tgagattcca cctcactcaa 240
ccttaatcag ctctggaaga ggttcagagg ggaagacaag ccctcatcac atataggtgc 300
atgcagagac tacaatgtgg acatggtgcc aaagtttatg atcgcaaagtg ggacattggt 360
tcgaaccctc attcacaccg acgtgacaaa gtacttgta ttcaaagctg tcgatgggat 420
ctatgctttc agcaaagta acatttaca agtccttgac actgata 467

<210> 16844

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C2

<400> 16844

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ccaatagtta ccccgaggt gacaagagat gtatgcgtgc tggccagaat gatggctgca 120
aacttgta tgcgacagat tgaagagctg atgtttgagc tctatatgtg gcgctgcaac 180
gatgagcttc gtgttcgtgc cgaagagctc cacagttcgt ctggttccaa agttaccaag 240
tattacatag aattctggaa gcaaattcct tcaaacgagc cctaccgggt gatactaggc 300
catgtaaggg acaagctgta caacacacgc tagcgtgctc gccatctgct ggcttctgga 360

gtttctgaaa tttcagcgga atcgtc

386

<210> 16845
<211> 457
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-021-Q1-K1-C6
<400> 16845

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gcacgtacga gagcgtccat ggacgactgc atcggcgaac aaggtgggtg aggacgtcgc 120
ggaggaggac cccggccgcc gcggcggtcc atggaggacg gatgaggccg acgccaacga 180
gaaggcgcct cgcccagca ggcggtcgc ttcctcgac gtcttcgcg gcctcaccgt 240
cgcgctgatg atactggtg acggcgccgg cggcgagtgg ccggtcatcg ggcacgcgcc 300
gtggaacggc tgcaacctcg cggacttcgt gatgcccttc ttcctcttca tcgtcggcat 360
ggcgttccc ctggccctca agaggatccc ggaccgtggc cgatccgtga agagagtgg 420
cgtaaggact ctgaatctgc tcttctgggg cattctg 457

<210> 16846
<211> 432
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-021-Q1-K1-C8
<400> 16846

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tacaatgtgc taggctagta cactatccag atggcccttt ctctagaga atcctaccat 120
tctagtcgtc gatctccttt acagcgtcct ttgcgagcct cgttacataa gcggcagcaa 180
tggtgtgaaa caataatcca acgcccagtg tccatagctg ttcgtttcct cccaaaccaa 240
tttccgactc atcttggtt aaagctcgcc cgaatgcacc ggcaactgac taagcccatg 300
aacctggaag cattcccaac caactgcca agacatacgg caagaacttc actgaagtaa 360
ggccatatag atagttccca agggagaaa gtaacagggg actcaagcgt agcaaagtaa 420
caaccttaaa cc 432

<210> 16847
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-D1

<400> 16847

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gctacgttgt tccaaatgac ggggatgggg ctgtccattc aatctagacc aatatatcag 120
agcacatagt tgattggtgc tctactggtt tcaagtgtgg gataaactac caaccaccaa 180
ctgtagtccc tgaagggtac ctggccaacg tgcaacgagc aatctgcatg atcagcaaca 240
tcacagtctg ggctgaggtc ttctctcgta ttgaccgcaa gtttgatctc atgtatgcca 300
aacgtgcatt ccttcattgg aatgtcacgt aaaggattga aaaaaggag ttctcagaag 360
ccatggaaga tcttgcaaca cttgagaacg attattacga agtccgaact taaattgaag 420
attaagacga cgaaactgaa tattgaatca tcgatctgga tgcattgtta 470

<210> 16848
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-D5

<400> 16848

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acaccctaca ctgtttatgt tgtacacacc tatctagaaa agacagaaaa aaactgaaga 120
gaaagctgat tagttacacg gagggaccga tctaatacgt tgccatcaac cataccgaga 180
aggagctagg caatgatcta caaaaatgct accaggtga aaacttcaaa tcaagtga 240
agcagaaggt tgttttcatg ccattgttg tgcacagtgg gtcgcagcgg atcattcttc 300
caaacaccat caacaataaa cttaatctca tatctaccag ggtacagtct cagatttaag 360
gaaaacatgc cgttttctga tctttccaac tttctttgac ttgt 404

<210> 16849
<211> 365

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-D8
 <400> 16849
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 attcatgagg atctccgtta ctgggttagg tgggtcttca aatcgagata gcaccgtccg 120
 atgttgagta ccgatgcttc gtcactctgcc tcgcctgttc cacggactac cactccatcc 180
 acaactcctt cagcacctac tgcgagggtcc tcgaatccaa gatcatcctc gatcgggaga 240
 ctcataagtc ccacggcttc ggcttcgaca ctttctccac ggacgatgcg attctcaacg 300
 ccatcgaagg catgaaccgc aaggatcttg actgcctcaa catcaccgtc aacgaagccc 360
 aatcc 365

<210> 16850
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-E4
 <400> 16850
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 cgtgctgccc gccaaaggga ggccggcggc gaggagcatg gtgggtggccc gtgtccccgc 180
 cacaaggagg agcgtccgtg tagctgccgt cgctcgcgacc gaggccgcgc agatcgacta 240
 cagctcaagc gtctcgggtg tcccgatgga cgctcgcgac ctgcttggtg gctactcgtg 300
 caacgggccc atgttcccgaggccaagcc cgctcggcg gctgcggcg cgagcaggag 360
 tgtggtcggg gtggacaggg actacctgtc ctacgacgag ccaaagacgg tgttgccgga 420
 cgaggcg 427

<210> 16851
 <211> 265
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-F2

<400> 16851

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caccttctaa cattactacc gatacttcta caccaacctc tcacgctag tttgactgta 180

ccaagagacc tccatgctca ccttccaggg ccagaacttt ccacggcccc tccgccattg 240

ccgtcaatct cggatctatc ccttt 265

<210> 16852

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F6

<400> 16852

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agctcgaata catgcaacta atgggaaaag tgacatctta cattgataga atgtgaaaact 120

ttaaacaata atccccacatc atatccagtt aatactgtaa taacaacatt ctagcattat 180

gtattcaaac tgcctactga tcatatgata ttaccatatg ctcacccctt tataaaactct 240

ccaagatca 249

<210> 16853

<211> 483

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-021-Q1-K1-F8

<400> 16853

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cctccttctt ggccctcgtg tgcgtcctcg ggttgctagc catcgctcc tacgtccagt 120

acactcgtg gcaaaagggg aaaggccgct tcggcggcca tgggaggtct gctcccttga 180

agctgcctcc tggctccatg ggctggcctt accttggcga gacctccag ctttactccc 240

aggaccccg cttcttcttc gcttccaaac agaagaggta cggcgagatc ttcaagacgc 300

accttctggg ttgcccgtgc gtgatgctgg cgagcccgga tgctgcgcgg ttcgtgctgg 360
 tgacgcatgc tcacctgttc aagccgacct acccgcgag caaggagcgc atgatcgggc 420
 cgtcggctct cttcttccac cagggcgact accacctncc ncttcgcaag ctcgccagg 480
 gcg 483

<210> 16854
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G2

<400> 16854

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 ttctgtatgc acgccaatat tattaatgtt cttagatttg ctcttatacc ttaatgcata 180
 catcgtttgc aggctcgaca accaaaaaaaa tataacgccc cgtttggatc attgaaattg 240
 aatttcattc taataatagt aatttaggca tatatcaatc aagataattc agttttatac 300
 gaaagatatt tgtatactat tattagcaag atgtc 335

<210> 16855
 <211> 493
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G3

<400> 16855

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 attcgtaact gttgctttga ggctgatact cagcttctga gtttgctttc tttagcagaa 180
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 agatcaaaaa tgccaattga gctatcgagt gcactctctc atgaacggga agttgttgag 300
 gattctgaaa ttcggcagca ggcattagaa gctatttata tgatcgtatt gcaagatggt 360
 ggtcgaaggt ccttttgggtc agttaatggc ccacgaattc tgcaagttgg ttatgaagat 420

gaaaaggacc cgaaagtgat ggaagcatat gaactcattg gttccctgct tgttgggaag 480
 ggtgaagatg tac 493

<210> 16856
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-H10

<400> 16856

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 ctagatcctt gagagaccac cagaggatga gatgctctcg atcggctgca cagtgtcctt 120
 cacatactat aacaacttag tgccatctga agacagcagc aagctccctg aaccaattgc 180
 agcactaaaa tctgtaatat gactcatata aggcatgcta ctatatctta tcaagcggtt 240
 ctctgcgaca tagatccgat gctatatgat cgtatactgg ctgtaacact gttaaact 300
 aggcttgatt cggatgtcaa tgtgtgcttc gtaccgatg taccttctct gctggcactg 360
 ttgcacattc actgtagcac atcagacgtt tgggtgctaataaggacaggc tatgtatcct 420
 ctgccagatt gtacatatat acattgcggt gatatataat gataaagctg t 471

<210> 16857
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-H3

<400> 16857

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 ggaggggctt ctctaccagg tggagtacgc gatggaggcg atcggcaacg ccgggtcagc 180
 cctcgggatc ctggcggccg acggcgtagt cctggtcggc gagaagaagg tgacctcaa 240
 gctcctccag accttcgct cgcgcgagaa gatgtacaag atcgactccc acctggcgtg 300
 cgctgtggca gggatcatgt ccgacgcaa catcctcatc aacaccgtcc gccttcacgc 360
 ccagcgcta cgcgtctcct accaggagcc catccccgtc gagcagctcg tccagtcctt 420

ctgcgacacc aagcatgggtt acacccagtt cggtaggcctt cgtccctttg gggtc

475

<210> 16858
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-021-Q1-K1-H4

<400> 16858

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agtgctagtc ccccttcctt ccgtgcatcg actacatgcn tcagcacctt gcacagctgc 120
cccattgcc aagagcaaa gatcaacacc aggtccaacg gcagcaaccg tagcgtggcg 180
aaggggtcac caccaccagc cttccagttc cagtgcaggg cgtctacttt cgcggcggac 240
accagcctnc ggctcgagca tgacgagaac cccgaggcga tcatct 286

<210> 16859
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-A6

<400> 16859

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aagactcctg ctccctgcgc atcgatacga tggccgtgtt ctccgacctc cacaccgccg 120
acggcctcaa gtccctcgag gctcacctcg ccggcaaaac ctatgtgtct ggtgactcca 180
ttactaagga tgacattaag gtcttcgcgc cggtagcgtc gaagcctggc gctgagtttc 240
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aaggttggtg tgtaaaattg gcttgccgat caagttctgc cggaacttct tctgccgatg 360
aagcttaaga ttaatattac cttgatcctt ttggtgatga aactgaagaa gaccagaaaag 420
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<210> 16860
<211> 207
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-A8

<400> 16860

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atgcagcgtg ccgtgctgnc actgacggcg atggttacgg agcgtgcagt ttgcgcgtgc 120
acgtgtgcgt ctcagggtg ctacctgcta ctgtgtgcct ctgagtgtct tagctgtgga 180
gtaagatata ggctgcgcct gacagtt 207

<210> 16861
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-A9

<400> 16861

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tagctagtta gtttacggtt ttaccacaag tcttcttcac aagttaagga ttgacagcaa 180
caaaaaatct caatggcctc tgccaccgcg ctcaagtect cttccttcc caagaagtcc 240
gaatggggcg ccaccaggca ggccgccgcg cccaggccgt ccaccgtctc catggtcgtn 300
cgcgcttctg gctacgccga tgagctcgtg aaaaccgca aaacgatcgc gttgccgggg 360
cgg 363

<210> 16862
<211> 190
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-B12

<400> 16862

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gtcttctctc gtggtatata gccacagctc atgnngactg ggtctcggga ggggcggatg 120

cgccgattgc gagctcgtcc tagaggacct aacgactgcg gcttgccgga gtcggtctgg 180
atggactcgg 190

<210> 16863
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-B4

<400> 16863

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gcccgctgta catcggcacg ggatgcttcc agaggagga gaccctgtgc ggcaggaggt 120
tcaccgagga ctacaaggaa gactgggaca gaggaaccaa ggagcagcag cagcaccgcc 180
accgctcga cggcgagacc gaagcgaagg ccaagtcgct agcgacctgc gcctacgagc 240
acgacgacga cacgcgggtg ggagacgagg tggg 274

<210> 16864
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C10

<400> 16864

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cacaagtctt cttcacaagt ttaggagtga cagcaacagg agatcttgat ggcctctgtc 120
agcgtgctca agtcctcctt ccttcccaag aagtcgaat g 161

<210> 16865
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C7

<400> 16865

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ggggatgcgc tcgcgcttgc gcttggggccc cctcgcagcg accgcagcaa ggggcactcg 120

tcagcctcaa gccttgccgc tcactggcac cacaagctcc tctgtggcgc gcggagtcgg 180
atgccgcggg ggggtggtgcc ggcgcggcg atgtcatggg cctcctcctc cgggagcgca 240
tagtcttcct cggcaacgag atcgaggac ttctcgcgga cccccgcgtc agccaagctc 300
ctcttcctga agccatcgaa cccgactttt accttcggct tttcggcaac ttaacaagg 360
gatcccttaa cgcaaccatg gccatctatt aagtaatgca acttgggaag gccaacctgt 420
tcactattgg aatgggcta actgg 445

<210> 16866
<211> 454
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-E9
<400> 16866

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gcaggccttt ggcgtcctc cctccccgaa aacctcgccc tctcacgct tctctcttcc 120
ccatccgacg ctctcgccac ccccccggc accgtaccgc ctgcgcgtcc ccgccagctc 180
ccgtccacg tcatccgate cacttatgct tctttctcgt cttccagtct tccaccatgt 240
catcctcact gagtcgcct ncccgtcca ctccgagcca ggccaagcc ccgtccacct 300
cgcgttcgga tccctcgatt ccgacctcg cgcgccacag ttgtacgtgt gggggccgtc 360
tcgtgagccg tgagcccttc ttacgatccg aggccaaccc catcccactg cgaagcataa 420
agctgagttc taccggccca ccacgcggca tggt 454

<210> 16867
<211> 365
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-022-Q1-K1-F9
<400> 16867

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ctagcgctga tacgtgcgtg cgtgggatgg ttggcagggc gaggggctga ccctgttcta 120
caaccggcg gcgacgaaga tggccccgaa cgaggtgttc ggcgtggcgt tcaacggcgg 180

cttcaaccag cccatcatgt gggcgggga gccgaggcag atgacgctgc aggagcgggg 240
 caaagccgac ccgcccattt acaccatcag gatacgctg ccgcagcacg gtggagagcc 300
 cgccgtctct ttcatttcat ctcattctac tagttacctc tcgctgattt ctctcgctgc 360
 gtgcg 365

<210> 16868
 <211> 308
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-022-Q1-K1-G9

<400> 16868

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 gcctcccgcc cgacagtctt cggcctccta catcatnct ccatggcgac tggccccctc 180
 ggaccgtgct cgccgtggag cctcctggca gcgcgagtgc cggcgtgccc catgccgctg 240
 ctccgtggtg ccccgctggt cgagaaggct ggccgaccat gcagtcggca gcccgcgtn 300
 gtggaagc 308

<210> 16869
 <211> 134
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-H7

<400> 16869

aagctacag tcaaggccca ttttcacatt aaacagacag agaacagagc tcaacataat 60
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 tgctacattc aaat 134

<210> 16870
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-A10

<400> 16870

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gtatggcaac acagggacaa catatatacct ggattcaagt gcaagtactg caaaaaacag 180
tggaaggatg tgggtgctata cgtttcaagc aacaccttgc atcgtgtggg gggaatgtgc 240
aaggttgtcg catcgttcca ccggacactg tcgattactt tcagcaggag cttgacaagg 300
tccatgatgc tagtgggtggg ggtgcttgtg gtagcgggtg tgggtgctagt ggtgcttgtg 360
cttgcngrtaa ccgttggtgt ggcagtggtg gtgcttggg 399

<210> 16871
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-A2

<400> 16871

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gagcttgtga cgatgcgcac ggtagaagag gaaccttttt ttttttgcgg ttggattgtg 120
caaactgcga gcagtagtga gtgtgggtata tttgtgcctt cagtttcttg ttgggtggag 180
tgttcttgtc gtttggcacg gcacactagt attatcagcg ctctgttgaa agatggatcg 240
gaatggatgc ccagatagtc tgggacttgt ggtgatgcaa atccagccag taactagtat 300
gaatttcttt agtgggggtt ttgggctgct aaaaaccgcc ggactgagca aaggaacctt 360
gcgtctttgt gtaaagcaac aatcgaatct gtgtgtgttt gtgattaaag tcgtcattcg 420
gtcc 424

<210> 16872
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-A5

<400> 16872

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 aagcaaaacg cgcagcacgc cgggcgctcc acgcacgtag gctagcagag cgcgcatggg 180
 gcttctggac cagctgtggg acgacacggg 210

<210> 16873
 <211> 497
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-A8

<400> 16873

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 gtgcgtggt gtgctgctcc atgtccgacc gttcgtctct agctcgccat ggctgctcca 180
 gatcctgctc gcgagtttcc cagcgccgtc agcttgccgg catccagctc gcctgtatca 240
 tggccgctgc gccgtcttta ctgcttggcc gtgcgttgcc gcgcacacgc gcccgacacc 300
 ccggttcctc tgtacgcctt gggtgcgcg gccgaactgc gtccttcgca gctcgctggc 360
 tttagctgca ggacaccacc agccgtgcct tcgtatcctg tgtcctcgac tcgtccacag 420
 tgtcactcgc gaggtgctcg aggtaatggc agaattgaaa atcgtagctg tgctcatggc 480
 cttcaagaca tattaag 497

<210> 16874
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B11

<400> 16874

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 acccgccgcy gctgtcgggg atgccggtea ggggtggtea taccgccacg ctttctcgc 180
 agccctcccc aggttccctt accctcctcg catccgctgt ctccaataaa tacgctatgc 240

gcgcacacagg tccgctttgt acaatcaggt ctagatctta tcggattaca actctcttgt 300
gcctcggcgt gatgcgattt cgttgaattt cagttggaaa gctgttttct 350

<210> 16875
<211> 488
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B6

<400> 16875

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ttctacgatg ctgacaaaacc aatgtataca tcacggagaa acctaccacc atctatgggtc 180
aacaatagta agatcaactga ttcaatcatt tcccacggat gtttcttgga taactgcagg 240
atagaacata gtgttggttg agttcggttct cggataggct ccaatgtgca cctcaaggat 300
actgtaatgc ttggcgctga ttattatgaa actgccgtgg aaagaggaga gctgcttgca 360
gaaggaaaag ttcttattgg gattggagag aatacaacga ttcaaaagtg tatcatagac 420
aagaatgcga ggatagggaa gaaagtggta atctccaact cttgaggtgt agatgaagct 480
gaaagaac 488

<210> 16876
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C9

<400> 16876

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gtgtgtttag aagaagaaaa aaatgatatc ttcagaatca gaaccagaca acgcctcaag 180
gactgactaa acccttggca atctccacca ggagaacgat ctccatccag catccaacgc 240
gggtgctttga agagaaggca gtggacactg gtgagtttgt gacttggtgt tgggtgcacgt 300
gaagagaact ttttttttca cccttcggtg gacatcggcc ccgatccaact ttt 353

<210> 16877
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-023-Q1-K1-E1

<400> 16877

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ccgcgtgccg tcggacacgg acctgcccggt gcagtgggaag gacgtggtgt acgaggacac 180
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cccgtgctg gtgtacttcc acggcggcgg cttctgcctg ctcagcttcg aggtggccag 300
cttccatgcc ggcgcgctcc ggctcgccgn cgagctcccg gcgctcgtgc tgcccgcgga 360
ctacc 365
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<210> 16878
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-E11

<400> 16878

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cttcggcgag ggccgcatca ccatgcgcaa gaccgtgggc aagcccaagg tggcggcgtc 180
cggcagcccc tggtagcgcc ccgaccgct caagtacctc ggcccccttct ccggcgagcc 240
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cgtcgacccc gagaccttct ccaagaacct ctagctggaa gtgatccact ccctctgggc 360
catgcttggt tcgctc 376
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<210> 16879
 <211> 358
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-G4

<400> 16879

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atggactagg taactagtcg actaggtaac tagtccttac taaatgtttg ttcttcgtat 180

aagtttagac tttagaccac cattttgttc ggcaaattct tgtacaatct ttaagtatct 240

tggttctggc ctggtttggg tgtgttgtgt aactgagcan actcgtatta attttacgca 300

ttttttgtga ccttaatctt aactggaatt agaagaaaat tttggaacag ttctcctt 358

<210> 16880

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H5

<400> 16880

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acttcacgtg gccccggttt cactgtcttc tgggctactc ctcgcccaga tcctcgggtg 180

cagagctgtt cgctcctgatg gtgggcataa ataaggtttc gtatcagggc attctctgcg 240

actacatcgg ctctgacacc aacacgttca ttgtgactac gacgactctc atactgttct 300

cggggc 306

<210> 16881

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A10

<400> 16881

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acctactcag ggagtaatca tatgatcggc atagttattt gatgggccca tagtcaccct 120

attgtcacct aatacc

136

<210> 16882
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A3

<400> 16882

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aagggtggcta atgaacggta ggtttcaaga tggccagtaa tgatatacac ggagttagtc 180
gtcatattgt actgtgttga gttttacgac ttcacgcctt tgggtgtggtt gtcctgatgg 240
agttgtgac gaacgggtgtg gcttttctgt gccctttcct tcaccacta aaaagcatag 300
aatgtggaga attttacctt gagccattat agaagtttat aatactttat gtgccacgaa 360
aaaaaaaaaga aa 372

<210> 16883
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A6

<400> 16883

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ccttgatggt gctattgcat tgacttatct ccatttgtgt tctggggacg ctttaaatctg 120
ttacaacttg aggacgtcaa acatcctact gacagagagc taccgagcca aagtgtgctg 180
ttctgaactg tcaaaaagtg gtaatatcgt gctattaaag ggaacagggg gctacattga 240
tccagagtac ttggagacct cagagctcac tgccaaatct gatgtctact cttttggaat 300
aatactctta gaaatcatat cttctcatgg gccacaagac tgggatgtat tgatgaacca 360
ccggcaaaagc agtggtgtac aatgggctct tgagaaattc tatgacgacc tcatgaatga 420
gatattggat taccgtatgg aggatc 446

<210> 16884
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-B5

<400> 16884

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ctccacagtc aggccacggg tctcgtcgct gcctcacagg ccaacttcat gcgcgtcatc 180
gtggacgcca cggccccggg gctggaccac caccgcggct cgcacctgct ctgcgtcgtc 240
cgcgcgctgc tcaagaagat ccgccgccgc gtgctcgtcg gtgaccgct cctcgtcggg 300
gcggtcgtact ggaccgatcg ccgcgggatg atcgaggatg tcttcgagcg gagatccgag 360
gttgctgacc cgctgtcgc caacgtcgac cgccttgctg tgctcttctc gctcg 415

<210> 16885
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-C1

<400> 16885

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gcggcgtttc ttttggcctc gcaagccgcg gacgatgaaa gaattcccgg gttttatcgc 180
aaggacaaca cctatttgat gctttctgga actagaccat acaacctgat ggtaaaatga 240
tacttaatta tgacacggaa aatggtacaa gacaagagtt catcacaaga cacggtacag 300
aaaagtgggc atgctgtacc tgggaatggt tct 333

<210> 16886
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-C2

<400> 16886

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gagaaaacggg cacacgcacg tgagaggcaa ccaatattca ccgtcggcaa tgggcgacct 120

gatccctggg ctgccggatg aagtggccag ggagtgcctc gtccgggtgg gcttcgacca 180

gctgccggtg gtgcgcgcga tctcgcgcca gtggaagtgc gaggtggagt cgccggacta 240

ccaccgccag cgccggggcg aggggctggc gcgcccgggtg ctgcgcgtgg tccaggcgca 300

gccgacagcg ccgcccgatg acgacgacga cgccggcccc gcgcacaagc gctcgacggc 360

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<210> 16887

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-C3

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ccatatctct atggtgatga cctggtaggg gtcctgaaga agaagcatgc tgccgggacc 120

tacaaaagcc tgggtctttta ccttgaagca tgcaatctg ggagcatctt tgagggcctc 180

ctgccgaatg acataaatgt gtatgcgacc accgcgtcaa atgcagagga gagtagctgg 240

gggacgtact gccctggcga gttccccgag cctccaccgg agtatgacac ttgcttggga 300

gacctgtata gtgttgcttg gatggaagac agtgatttcc acaatctgcg aactgaatct 360

ctcaagcagc aatacaactt ggtcaaggat aggacagcgg ttcaggatac attcagctat 420

ggctcccatg tgatgcaata tggttcattg ga 452

<210> 16888

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-C4

<400> 16888

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 tttttttatt ttgaaaaaa aaataatttt ttattttttt ttttattagt ttaaaacaga 120
 taacaaaaaa aagtaacaat caagatgcta ttattttata taattttata 170

<210> 16889
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D3

<400> 16889

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 tcacctcct ttaaataagga tatgctctaa gtcttcccat actttcctat aatgactgca 180
 acgattttct ccattttgcg aattcctatt ttatttgaag tatattacta tcatatacat 240
 tatctaaatc gatccacttt aaataaaaata gaaaaaatcg aaagaaaaaa aaaaagaaag 300
 agtaaataat aaaacaggat attctgtttc ataattctga aatagagttc ttttttttag 360
 tattactcct cattaggatg tatatattaa tcacctcatt ttaatatata ttaatcatcc 420
 tattttaatt aggttctaata ccaattagta gtaagtattt tcttttttat tta 473

<210> 16890
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E1

<400> 16890

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 gtgaaattcc tggaacttta cgacagcttg gacaaatata caccattcaa atggacaaaa 120
 acattcttac tggaacatt ccgccatat ttagtcgact atatagcttg aacttgctca 180
 atctttccca taacaattta tctggcccca tgccaacttt tctaagtggc ctaaatctta 240
 gtaaactaga tctatcctac aacaattttc aaggacaaat accaagaact ggtgtattca 300
 ataatcccac aattgtttca ctagatggca atccagaatt gtgtggagga gccatggatt 360

tgcatatgcc ttcgtgccat gatacttcaa aaagagtagg tagatcaaac ttattgatca 420
 aaatattgat cccaattttt gggttcat 448

<210> 16891
 <211> 481
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-E3

<400> 16891

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 caaatgaatt gggatgccta tctcaggcgg taagtgttgc atcgattttg tcagcagaaa 120
 taacattgcg atcagtttagc aaggacgtgg tggatggaaa gaggaaaagg caggagctcc 180
 ctgatgggtc tggctggggg gaccatatac aattgcttca gatatttgaa agctgggacc 240
 aaactggcta tgacacaaaa tgggtgctctc atcatgattt gcaggtgcgg ggtatgaaat 300
 tgagcaaaga tgtgaggaac caactatgtc agattattca aaaaattgca aaaggttcaa 360
 ctgatgtgga tgcaaggaaa agccggaaga atgaccctga ttatagaaaag ctgangagag 420
 ctctctgcgt angatatggt aaccagctag ctgagaggat gctgcatcac aatggctacc 480
 a 481

<210> 16892
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E6

<400> 16892

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 cgcgaacgtc gacggataca gcccaatcta caacgaggat gactgggtctc ccaccggcga 120
 cgtctacgtc ggtggaacca ctgggcttct gatctgggcc gtcaccctcg ctgggaccc 180
 cggcgggcggc gccctactcg tctacaacac cagcgccctc tacggctaag gatatccaat 240
 gcatgcgctt cttgcgattc gtcattgtaaa atcaggggtg ctgtctataa tctagcctcc 300
 atggatgctc aaccttcgtc atgtaacaat tatcagtgt actctgcata cataattttg 360

atgctatat

369

<210> 16893
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E7

<400> 16893

cataagtgca cacaggtgga atagggcgag gatggtctgg tgcaaaggtg aagtaatggc 60
acagattgtg tatgtgtgtg tctgtttttt cagaagtttt accttgcgta ggccagattt 120
gtcgattctt agtcgtctgt atttggctgt attcaattga attgtgaaat gtatcagttg 180
aagttatgcg tagacattca cttcaaaaaa ctatgacaca aaatggtgct ctcacatga 240
ttttgcaagt gccaaagtatg aaattgaaca aagat 275

<210> 16894
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F1

<400> 16894

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gtgaatatgg agaaatgctg gtcaacgatg ggagtatgtt agacatggag gaaccgatca 120
cggtaactga atctgatgct gtggatgccg tagagattgc tcttcagcgt tactcggcgg 180
atgttactac cagggctatg tgtcttgtct ctcttttgaa gctttcttcc cggtttccac 240
caacatcaga gagaataaaa gaaatagttg cgcaaaataa aggggaatact gtgcttgaat 300
tgcagcaaag atctattgaa ttcagttcca ttatacaaag acatcagtcg ataaaatcat 360
ctttgcttga acgtatgcct gcattggatg aagcaaatta tttggtgaag agagctgctt 420
ctacacaggc tgcaggttca tctgtaaatt ct 452

<210> 16895
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F12

<400> 16895

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tgccattgg cggcgagccg gcgctctgct ggtgtacgag cagatatgac gctgttcaac 120
aagcaggggc gcaccctgga ccgccacatc ggggacggcc ttgagctgcc tccggcggcg 180
ctgcagacgc tgggccccgc gagcatcctg ctgttcgtgc ctgtttacga ccgcgcggtg 240
gtgccggcgc tgcggtgggc gacgggcaac ccgtcggggc tgagcatgct gcagcgcgtg 300
ggcgcgggca tggcggtgtc gctggcgggc gtggcggtgg ccgcgctggt ggaggcgcgg 360
cggctggcga tggcgcgga gcacgggtt gtggacgacc cg 402

<210> 16896

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F2

<400> 16896

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aaagcgtgta aaccatggcg tcttcgcgt gccgaacgc tctcgtcctg cgatcgccat 120
caccgtcgt ctcgtctcgc tctaaccgcc gcagcaccgg cgccttcgcg tccccgaacc 180
caccgcgctt cccatgcctg cgttctgcgc gtcgactcgt ccttgcgagg gcggcggcag 240
cgccggcgcc gggcgatggc cccgaggacg agtgggggccc ggagcccag ggcggttccg 300
ctgtcacggg ggccgcggtg gcggaggcgc cggaggcgag agaggtcgcg gagctcaagg 360
cgcagctaaa ggacgcgctg tacggcacgg agcggggcct gcgggcgttc agcgagtcac 420
gagccaaagt gctggagctc atcacgcagc tcgagacgcg c 461

<210> 16897

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-F4

<400> 16897

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caggccggtt cctaacgcga gaggcgagga ggtgctggcg aagaagtaca ggatcaggct 120

gagggggatc gatgcgcccc agagcgcgat gccgtatggc aaggaagcca aggaggcgct 180

gctcaaaactt gtccagggga agagcttgaa ggtctacgtg tacgacgagg accggtacgg 240

tagatgcgtc ggagacatct actgcgacgg ggtatttgtg caggagcaaa tgctgaagaa 300

gggttttcgcg tggcactaca ccgntacga tcaacgcccc gagctggcca agtgggagaa 360

acaagcgtag accggccgga agggcctgtg ggcggtcgcg aagccacaga aaccatggga 420

gtggaggaag gacaagcgca acgggacagc atgaacaaac ccncccgtag at 472

<210> 16898

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G1

<400> 16898

tatcgaggta gcgtctgcta ctcgtagttt attacacttc ttgcaaatat gtcaggcgcg 60

gtacgcactg aagccgagta ccaagcaaata gacataaaact aacatgcaga ctagacaacc 120

caactgaata catgtatctc aatgcacatc tctgcaatca tctttactga aaaatattaa 180

accgctcgat acacgaacct tttcttttcg taagattcat aatatagata gtcactgaca 240

tggttctatt 249

<210> 16899

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G3

<400> 16899

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gattcaccgg ttggagctgg attttgcttg gcgagagatc ccaaaggcta cgatgtcgga 120

gacatctcgg cctcactgca gctacaggaa ttcctcatca agtgggttcag tgatcatccc 180

gagtacctcg cgaatccttt ctacattggc ggggactcct atgtcggaaa aatcgtgccg 240
 ttctcgggc agatgatttc agaaggtatt gaacttggaa gaagaccctt ccctaacctc 300
 aaaggctatc tgggtgggtaa cccaatcacg ggcgaaagta tagatttcac ttccagagtg 360
 ccctacgctc atggagtcgg tatcatatca gatcaattgt atgagacgat attggggcat 420
 tgccaaggag aggaactacac tagtcttgca aacgctctgt gtgctcaggc tctggacact 480

<210> 16900
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-H1

<400> 16900

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 cctctcaccg ggcgcgctcg ccgtcacgg ggtcgtcccg agggcccatc ccagcgcaac 120
 cgacttccgc ctccgattga agcaatgtcg tcggacgacg aggtcaggga ggagaatgag 180
 ctcgacctct tctccaacga tgtcgtcacc aagtacaaga ctgccgacca aatcctgaac 240
 aacgctctga agctggttgt gtctgagtgc aagcccaaag ccaagattgt tgacctttgt 300
 gagaaagggt actctttcat aagagagcaa actgggaatg tctacaagaa tgcaaagagg 360
 aagattgaaa ggggcattgc tttcccaacc tgtgtttctg tgaacaacac agtctggcac 420
 ttctccccgc ttaccacaga tgatg 445

<210> 16901
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-A12

<400> 16901

accggttcgg aattccccgc tcgacccacg cggtcgtggc ttctcctccc cctccggttc 60
 gggttcgggt tcgtgagggt ctccgggggt cggtttcgtg ggtgagcgga tcgagatggc 120
 ggcgtcggat gttgagtacc gctgcttcgt cggcggcctc gcctgggcca cggacgacca 180
 ctccctccac aacgccttca gcacctacg cgaggtcctc gagtccaaga tcatcctcga 240

tcgggagacg cagaggttcc gcggattcgg ctteggcacc ttctgcacgg aggaggcgat 300
gcggaacgcc atcg 314

<210> 16902
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-025-Q1-K1-A5

<400> 16902

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ccccacgag tcccgggtacc ccgtgaggag ccggagccgg tgggcgtcca ctcctgctg 120
ccgtcctcca ccagtcaact cgcccgcctc ggacgcgtcg ccgcgcctgg ccgcgcctcc 180
gccgcgcagc gccagctgc tcgtctgcaa ggcccggaag caggaagccg ccgcggacca 240
gagcgacgtc tcgcgccgcg ccgcgctcgc gtcctcgcg ggcgtcacgg ccgcgcctgg 300
cgccaaagtg ggtcctgccg ccgcggcata cggagaagca gccaacgtgt tcggcaagcc 360
caaggcgagc acggagtaca 380

<210> 16903
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-A8

<400> 16903

caaaaatgaa tggcgcaggc catcgataga ttgattcatc cactgatgac gatacatgcy 60
tctgtgctta gtttacatcg accgcttaca gcaggcagcc attgacattg attgatgagc 120
acacatcgat catgagcata cgccggctgg tgcaactact acacgcctac gatctgaaca 180
agtagagtac agagaagacc aactgttca ctgcacggac ggacgaacga atggatggat 240
ctgatggtag tacacatgta cggcgcttgc cagtcagtta gttgccgggg acgaagttcg 300
tggcgatatc ccaggcgctg ttggcgacgg ggtctgcgac gtggtcgaag aggttctcga 360
tggggcc 367

<210> 16904
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B10

<400> 16904

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gttagctcgt gacgatcgga ggccatgtgc tgggcgaagg tgagtggctg tcgctgaatg 120
gggccactgg cgaggtgatc cttggaaagc agtcgatttc cccaccagcc cttagtggcg 180
atctgggaac tttcatggcc tgcgtggatg atgttagaaa gctcaaggct ctggctaacy 240
ccgatacccc tgatgatgca ttgactgccc gaaacaatgg ggcacaagga attggattat 300
gccggacaga gcacatgttc tttgcttcag acgagaggat taaggctgtc aggcagatga 360
ttatggctcc cacgcttgag ctgaggcagc aagcgctcga ccgtctcttg ccgtatcaga 420
ggtctgactt cgaaggcatt t 441

<210> 16905
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B9

<400> 16905

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gatcgagatg gcggcgctcg atgttgagga ccgctgcttc gtcggcgggc tcgcctgggc 120
cacggacgac cactccctcc acaacgcctt cagcacctac ggcgaggtcc tcgagtccaa 180
gatcatcctc gatcgggaga cgcagaggct ccgcggcttc ggcttcgtca ccttctccac 240
ggaggaggcg atgcggaacg ccatcgaggg catgaacggc aaggagctgg acggccgcaa 300
catcaccgtc aacgaggccc agtcccgcgg cggccgtgga ggcggcgggc gcggtctacgg 360
tggtggccgt ggaggcgggc gctacggcgg tggcgggcgc cgtgatggcg gc 412

<210> 16906
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D12

<400> 16906

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gtgctaataa ataggagtat aatcgtcata tcgatcgggt gcgtgtggaa tgccaatcat 120
gtgtgtaatc tgttggcaaa taacaaacct ctgttctccc ctgctgctgt tgtccgtgcg 180
atcatgattc agaactggcg tgggcgccaa taactcagaa gagagacttg ctgt 234

<210> 16907

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D2

<400> 16907

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gaacgggagc cgctcctgca gcaacgacgg accggcgctc gcaatgcctg cggtgccaag 120
gactcgtcct cggcgccggc gccgtcggtt gccgcgctgc cgtcgtctggc taggaccgtg 180
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accaagcccc tgcaggccgt gttcaggaag tgggtcgggc tcaccaggga ctccatgttc 300
ggcatcgccc ggggtatctt cctgaccttc agcgcgccaa ttctgatcat tgcgcttctc 360
gcatatgtgt acatctcctt cttcccaggt gagcatgtgg tggagaaaag gaagctgcgc 420
tactgagtt tcaggctctg ggacttt 447

<210> 16908

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D6

<400> 16908

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aacggctaac agcaatttta cactctacta gggctacatc gatccgagcg tcattcctac 120
tcgacgactc aacaaaatcc tgggcgtggt aaagagtgtc ctacgacctc ggcagtatct 180

tgccgttata catcttgctg agcagctgct tggcttctgg gcgtcgcagg agcccccttgt 240
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 ttcggcactc ggtgaattca taaacatctt tcgccctctt ccgattgagg gccttccatt 360
 tccctgtgcc accacacatg 380

<210> 16909
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E2

<400> 16909

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 cgggcgctcg gatggccaac aggtcttcgc cgccgtccgc gggcgccgcg ctgtggaggc 240
 ccggcggggg ccccgcgctg cgctggggcg gaggcggagg cgccccgcgc tgcgaggcgt 300
 gcggtgggtc gggcaaggag gactgccgcc tctgcgcgcg ctggtccgac gccggcgccc 360
 gcgggaagaa gattagccgc tccgggtgcg gcgcgtgcgc cggcacgcgc cg 412

<210> 16910
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E7

<400> 16910

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 ggctgatgt ggtctggctg agcgtggagg acgccaagaa ggtgatcctc atggacaagc 180
 cggacgccga catcgtgggtg ctgaccgtct gcttcgaggt gaccgcggat tatcgcccta 240
 accgtgtacg catc 254

<210> 16911
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-F11

 <400> 16911

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 atgcgccaca gaaactcgca cgccggggcc cgccgtccg cccgagtcgc cgtcgctgcc 120
 gaatccaatc catggctccg cccgccgaac ccaccgcgct gcaccaccgc acgcccctcc 180
 tgctcccccg ccgcaccgta gtcttgggtg ccaccgccac cgcgcgcgcc gtcagggccg 240
 cttctctcga cgtcagggcc cagccggaca ccaccgacgc agccgtctcc acctccgcgc 300
 ctgagccggc gcccgagttc aagcctgcgc cggggttcaa ggcgcccag cccaagaggt 360
 acgatgtcaa gtccggccag gtgggcagcg ttc 393

<210> 16912
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-G8

 <400> 16912

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 gtatgtactg aactgtacaa gcttatcgag aaagatcact gcgagtctac aacaatccac 120
 acccaacaca ggcggtggac acaaccatc caataatctt tcatgagtac agtgtcggag 180
 tcatcggcc aattcttcaa aattatcatt aatttatgat gttcatgtaa ctatagtcgt 240
 aggataaggc agggccggtt tggtttcatc acgcgatgg gagcaccttc ttgacgatct 300
 catcactgag cgaggcgatc tgggcgtcga gcgccttaac agcctcctcc ttctgcgcct 360
 cgaggttggc gagcgcctct acgagctcgg cctccacacg gctgcgcccc tcgtccagct 420
 tggcc 425

<210> 16913
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H10

<400> 16913

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gcagcgctg caggaagagg gttggactta cgggattcaa ctgccggtgt gggaacttgt 120
actgcgcact ccaccgtac tccgacaagc acgactgcaa gttegactac cggactgctg 180
ccagggacgc cattgccaa gctaatecgg tggatgaagg agacaagctc gacaagatct 240
aggggggggtt ccctacgggtt gggatatcagg aagattgtaa accgcggtaa ctcgatcatgc 300
ggaactgctg ccttgcccc cgcgcctttc tcttccatgt ttgctgctac aatcttggtg 360
ttgggcattg cagtgcacgg tgcacacttg tgtagccgg ctcgagaatt tcttgctttt 420
gcatctggtc agttctaaaa tgatttgcatt gttgg 455

<210> 16914

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H5

<400> 16914

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cttttgatg gaaactacac tgcaaaagtt tcagattttg gtgcgtcaag gttggttcct 120
attgaccaa cccatgttgt tacgaatatt caaggcactt ttggctactt agatcctgag 180
tactatcaca ctgggcaact aaatgagaaa agtgatgtgt atagctttgg agtggtactt 240
gtggagctac tccttcgaaa gaagccggtt ttacaaatg agactgggac aaaagcaaaa 300
tctgtccaac tatttccttt gggaaaagaa gatgaaacct gttacagaga tagtggctgc 360
tcaagttctt gaggaagcaa cataagaaga aattaacatt attgccttcc t 411

<210> 16915

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-A1

<400> 16915

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 gtccaccacc ctctcctccg acttcaccct cctatcccg cctccacct ccccggtccc 180
 cggcgcctag ctcccagagt cctaccacgc cgcgccccac attcgccggg gcggtcgcg 240
 cgtctccgtc acgtgcaccg ccaccgagtc cccaagatc ctgaacctcg agaaccctat 300
 ccccggccta accctcaagg agggccgcaa cctcctcgac cacctccaga accggttcgg 360
 agtcaccgcc gtggacttcg gccgggccc ccttgaaggg gccccgggt cgaacgctg 420
 gcccggtcc aagaaggagc ccccttc 448

<210> 16916
 <211> 275
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-A2
 <400> 16916

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 tccgatgcc ccacgcgcgc cgcgcgcgc gcggcctgct cccgcgcgg gagggccccg 180
 cttcggcgac tccgcgcgtg tgetgctcgc gctggcgcg ctctacgcgc ccatgtcgt 240
 cctcgcttac cgcgtcatcc acatgcgcca cgctg 275

<210> 16917
 <211> 499
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-B8
 <400> 16917

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 cttgctgggt catccttggg atcggtctg tcgtccccta gctagttcgt tcggtgctgt 180

ggtttctgcc gctatatcca agaactcttg ctcttgctga gtctggactc tgggacttca 240
gttccttgca gagccaggct ttacatatct tgggtgccgc acacagtatc tatgcacctt 300
tgacaacacc aatctgattc tgatgacaac aacagccact atctcccgtc atccttgcac 360
cgatctgtca gctggcgctg cctcgtgctt ctgaagacga tggccacatt cttctccact 420
tccacgaacc agaggggacct cgccggaggc ggccggcgaca tgtcgtcgtt ccaccactac 480
gcctactcgg acccaccag 499

<210> 16918
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C1

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ggctgctgct catctacggc cattcgtcgg cctcgtcgtc agcctcaatc ccgtctggag 180
cttgtctgtc taccgacca gagtaccgg tgctgctgcc gatccagcgc cttactgaa 240
ctaaaggaaa aaggcgcaact agattaataa caccatgggtt ccaagaaaca t 291

<210> 16919
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C11

<400> 16919
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acctgtgctt ccaaacggtg gggggcttca cggccgccac gctgaaccac ggcatgcacc 120
cgccggtctt tcccaagccc aactggcgca agctcatgga cgagatggcg gtcgtggcca 180
cggaggagtc ccgctcggtc atcgtcaagg agccgcgctt cgtcgagtac ttcagatcgg 240
ctacaccgga gaccgagtac gggaggatga acatcagcag ccggacagcc aagaggaggc 300
ccggcggcgg catcacgacc ctgcgcgcca tcccctggat catctcgtgg actcagacca 360

ggttccacct tcccgtgtgg ctgggagtcg

390

<210> 16920

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 16920

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ctgatgaagt gggcctaact ggaatcagca gcagctatcc aactgaggga aatgagagtt 120

cacaacctga tattgaggta gcagcgtcag tatcttgcaa cttgggtcca gatttggtc 180

cacaagctgc ttctgatgat ttccacatat cagatcctca ctctttacgt cctgaaaaca 240

agggtgcac caacagtcgg agtccaata acttgtgcac agatcctttt gctgcagaag 300

caaaggaagc tcgatgtgtg aagctactaa cagagaataa ttccaagaa ccctgtaagt 360

ggtattctgc tgctggacac ttgtcacaga agttgggttc ctggttgaaa gaaagagact 420

tgcaatggga tctgnntaga tgtctc 446

<210> 16921

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C2

<400> 16921

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cacctcacia ccgtgagctc gccaaaggaac ggtgtgcgca attccggcgc cggcaccatg 120

agtaagctgc atactgattc tctgaggga accattgcct caattaccaa tgattcccg 180

gagaagcagc tcaaatttgt tgaaaccatt gagctacaaa ttggactgaa gaactatgac 240

cctcaacagg acatgcgctt aagcgggttct gtcaagctgc ctcacatgcc tcgccctacg 300

atgaacgttt gcatgcttgg tgatgctcag catgttcagg aggcacagat aatgggtata 360

gacaatat 368

<210> 16922
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D7

<400> 16922

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 ccatgaagaa cctcatgcc aaggcctggg acgagcttgt tgagaactgc aacatcctgc 120
 agagccacta caaggaaatg catgatatcg agttcactgt ccaggaaaac aagctgtgga 180
 tgttgcaagt cacgacaggg aaacgtactg gcaaaaatgc cgcgaagatc gccgtggaca 240
 tggttaacga gtgccttgta gagccccgct cagcgatcaa gatgctagag ccaggccacc 300
 tcgaccagct tctccatgct cagattgaga acccttcagc gtacaagggt caagtcattg 360
 ccactggact g 371

<210> 16923
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-E1

<400> 16923

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 ctctcattca gagatgggct cgtggaccgc gcctgcctgc agcacaggaa ggcccagcca 120
 atctatcaag ccttgccgcc ttaagtcgta tgtcatgtcg tttgattccg atacgtcca 180
 gaggtatgcy acagtcaggt caaaggagge cttcggcacg attgagaagc acacggaagc 240
 gctatattggg aagccagaga ttgtgatcac acctgaaggc acccttgatt cttccaagga 300
 tgagcatatt acgataagct ttgctgggct g 331

<210> 16924
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-E3

<400> 16924

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tcccattctg cctgtgacta gcagtgaaca gggcagatgg caaatgtgga gcacgccatt 120

ggttcaggaa agtttaggtt tgcaagggtcc tcagagtcag tggtttcaac aaaacacaaa 180

tcaatttaac catagtgcta accttttcag tagtgaaggc agggcaagaa gtcccctggg 240

tactggtttg aatgacagtg atccatggct tcagaaagca ccttttcaac aattgccacc 300

tgatacatca agcctggtnc ttccacatga aatgccagaa aattggccca atgcttggct 360

tttgggtctt caaaccaaata aaccgggaa caaccctttt ggccaacttg gtaattggtg 420

gcttaaggag gacctgggct tg 442

<210> 16925

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-E4

<400> 16925

gaattccccg ggcgaaaacc gctgactctg taagcagatt gcgtcaagct ttcactgcgg 60

taccgatata cgctagagct caagacctgt ggcattgtct agatcttaag aaagcaggcg 120

caacagacgt tgtcctggaa aatgccgaga ccagcttgca gctagggtca atacttttga 180

aaggactggg cgtcatgtct gatgatgtat ccttcttgag taagcttgtg agggactcaa 240

tggagctaca agctcaagaa gcactgaaag acattgcgga ccaagaagtt gatattatg 299

<210> 16926

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-E5

<400> 16926

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aggagccgca ggccaccttc tccgctgct tcggcgcggc cttcatcatg ctccacccga 180

ccaagtacgc cgccatgctc gccgagaaga tgcagaagta cggcgccacc gggaggctcg 240
tcaacaccgg ctgggtcgggt ggcaggtaca gcgtgggcaa gaggatcagg cttccctaca 300
ccagaaagat catcgacgcc atccactccg gcgagctcct caccgncaac taccagaaga 360
ccgaggtggt tggcctggag atccccactg agatcaacgg cgtgccgtcg gaaatcctcg 420
acccgatcaa cacctggacg gacaaggccg cgtac 455

<210> 16927
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-F1

<400> 16927
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ctcgggatgc ccgcggatgc tacttgtgcg ggcattgcgtt gcaactctgg caccgattcc 120
gttccttctt tgcggcggcg gcggaaaaac aggagcttct ccattccttc cttcgttcgt 180
gctcttcttc ttgttattcc gtttatcggt ctggcgcaga aagaaacaag agatgcgatc 240
tagtctgcta ccggagtccc cgtacgtacc cagtgtcccg cggcttcggc aggggtgctg 300
ctggctgcag acgctgatct gtatccaccc ggcaaccgcc gtccgggttc ttcattgtaa 360
ccggggaaga atttggggct ggtggcttgt ggtttcaatg ggcttcacca gaaaccagaa 420
cctttttggc aatttccttg gggttcaaaa 450

<210> 16928
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-F4

<400> 16928
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ctgggttgggt atattttata tgatgacgat gagaactaag tacaagtgct tttatttttt 120
attattccta aagacaactt ttgtatatgt aacatcatga atgtttgagg tgtctcatgt 180
gtaacttta ttaatatcaa tttatgcatg aaatattatg gatggttcaa a 231

<210> 16929
 <211> 323
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-G3

<400> 16929

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 tcgggtgagc cagcccatcc acctcgctcc ctcgaccgac ccaccagcc cagcgcgagc 120
 tcgcatggcg atgctgctcc gcaaggtgtg gggctccgtg ctggctcgcg ccgcagcgtc 180
 gggggccgac ccgcggggccc gccgcgcgca tgcgcacgt gcgagcagt accagtacca 240
 cggctcgcta tcgctgggcg cgctcgacgc cgatcncacc gacgtgctcg accagatcct 300
 gcgcctgctg gtccccgctc gac 323

<210> 16930
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-H3

<400> 16930

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 gccacacga ctattctatc tagagtacag gcgacttcaa aacagacaca cagtcccgcg 120
 ctgcctgac tctgaccttg ttgacaacta ccgaaactcc aaccacctga tcgcggacac 180
 cgtatcttcc tgactgagcc ttgaaccac cgttcaccac cagtcccgcg ctttcctcta 240
 gtgtgacact gacgaaca 258

<210> 16931
 <211> 57
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-H4

<400> 16931

gacgccccct gtagcttcac attaaccact gcccggtgta tctgctactc gcatacc 57

<210> 16932
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-A1

<400> 16932

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cgcccggtgct gtacgtttcg tcgtggaaag aaccctgggg tgtgtatttg tttcatcaat 120

catgccagcc gatttgaatc tcgtttcacc agcatgatct gatttgggta tacaagtata 180

aaccgcaacg agcgatcttg taaaaagag 209

<210> 16933
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-A2

<400> 16933

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gcgtacgccc gtgatcgtgc gcttctagac tgtgatccac gagcgggtggg gcttgaagac 180

gatgcgcgac ccgcgcgggtt tcggcgtgaa gttctacacg cgatagggca actggaacct 240

gctgggcaac aactgtcggg tgttc 265

<210> 16934
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-A3

<400> 16934

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ataggaaaag ggcaaaagcc aaaaggcatg agcgccgcga cgacgatggc agcctcgctc 120

caagccgcgg ccaccctgat gcagccggcc aagatcggcg gccgggcgcc ctttgcctcg 180
 ctgccgtccc gcccgtcgtc gcaactcgcc tgcagggcgt tcggcgtcga cgccggcgcc 240
 gacaggatca cgtgctccct gcacgacgtc gccagcaggt gcgtcgacgc cgccaagcta 300
 gccggcttcg cgctcgccac ctccggcgtc ctagtctcgg gcgcgagcgc ggagggcacg 360
 cccaagaggc tgacctacga cgagatccag agcataacgt acatggagggt gaaaggcacg 420
 ggcacgg 427

<210> 16935
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B5

<400> 16935
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 caatacaggc acgatgcac caggcacaaa tcgatcgatt tagaaacaag aatcaaaggt 180
 gtgcgagccg agagacgaac acgagagcaa atccttcctt aatattcatg gacagcgcaa 240
 cgctgacctg caacaaccga agccgaccac aggcattccg aagacagcaa gtgaagctca 300
 gatcggcgaa ctgcggcctt atgcgcttcg cctaggagcc tacggagtac tgagaacaga 360
 gcagcggagg atcatggcac accttcaatt cttgcggcgc cagaagcagc ggagcttgag 420
 ccggcgcgct aggacattgg cgatcg 446

<210> 16936
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C3

<400> 16936
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 ggctgggggtg gggacctaaa acgccatgga tgtgcagccc taggcaccag atattaggat 120
 ggatggagtc acacaagctg ttgaaaatct taagaaagaa tggggccaag cagtttcaca 180

gcttgacgag aacattactg caatcaaatac atgtggaaaa acagggaaaag ggacagagga 240
agcaaattct cttccaaggt tgaatgggtc tgcacaggat gctctgcagt tgctgaagtc 300
actgcagttc cagctggatc ttctagcaca gcagcttccc acttttgatg aggtgcagtc 360
tggtaagca accttgaagt catgggatga acaatacaag aagcttcgta ttagcttgag 420
gaatgc 426

<210> 16937
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C7

<400> 16937

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gcgccctttg cctcgctgcc gtcccgcccc tcgtcgcaac tcgcctgcag ggcgttcggc 180
gtcgacgccg gcgcgccag gatcacgtgc tccctgcagg acgtagccag caggtgcgtc 240
gacgccgcga agctcgccgg cttcgcgctc gccacctcgg cgctcctcgt ctcggggcgcg 300
agcgcggagg gcacgccccaa gaggtgacc tacgacgaga tccagagcaa aacgtacatg 360
gaggtgaatg gcacggggcac ggccaaccag tgcccagca tcgac 405

<210> 16938
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D12

<400> 16938

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atttactgca acacaagcct tttagctgtg tcgaccgctg actattggat cacaagcact 120
gccattctt atttacagca cttggcaaaa ccactttaac acaccacatg ggctactcca 180
tctactgcct atgagcgccc aactaagtgt ctactctata ctacgcttgc ttcccttaac 240
tgagcctgct caaggccacc actatgttcc cttagctcac gattccctgg atcgaacctt 300

tctactacat ctcggtctcc aagaacgcct acaacacgtg ataagctctt tggcacgtag 360
acacgctgaa agcttattgg aacaa 385

<210> 16939
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D9

<400> 16939

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ttccccgtcc tgcattcccag ctgagggttg cagctcaac acgccggtcg cgtcggcggc 120
ggctactctt ctgctgctgg tcgcgcgct cgcgcgct gccgacagca tggtcacgt 180
ctactacagg gatccgag 198

<210> 16940
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-027-Q1-K1-F2

<400> 16940

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ccaccgcacc cgcgaacttg ccgggcccgt cggcgctgca caccaagccc ggggatggcc 180
gccgcgcttg cgagctcgcc gcttggtcac ctaactacct cccgtctccg cctccccagg 240
ccccaagcct ccgcttccag ttccgggtcca gtctgctcga tcggcggtg cttgggatgg 300
aggctcaagg tcgggtggag agccctgagg cggcgcgacc ggcttcgatg cttctccacc 360
gacggtggcg gccggngagg agggggaaaa gcgtggcgag gaggaagcat cggcaac 417

<210> 16941
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-F9

<400> 16941

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gtatctcccc agaaggggtg tgagaaggag tagtatcctc aatgtccacg ggaggaagct 120

gttgatgctg aggtcctcat tgaccgacgt gccagcagag gtcccggcgg tccaggtggc 180

cgatgcgccc aaagcgaaaa atgcgcccac agagaagaag gcgcctaagg agaagaagct 240

ttccgcggcg aaaaagccgg cggcgcaccc tacctacgt gagatgattg tagaggcgat 300

cgctgccctc aaggagagga aggtgtcgag ctcggtggcc atcatcaagt acgtctaggg 360

tgagcatggc ggcaaagctc acaccaactt gcgcaagcag ctcaactgtc agctgaagaa 420

gctcgc 426

<210> 16942

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G10

<400> 16942

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gcccacacct tcctcttcat cgcggtcgcc gtccacttcg ctcacccact cgccacggac 180

atcctcgccg acatcaaagc acaaaggagc agcagcagga ccactaccac taccggcgcc 240

gcgagctcaa accactccaa ggagcttgcg ttgctagcga tctacctctg ctacctcgcg 300

agcaaactcg ccaccagct cgtcaccgcc ctgccaccg ccacgaccta ctccggcgag 360

cgcctcacgc gtaaagtggg catggagagg at 392

<210> 16943

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H11

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acgacctgtg gtacggcccc gaccgcgtca agtacctggg ccccttctcc gccagacgc 120
 cctcgtaacct gaccggcgag ttccccggcg actacggctg ggacaccgcc gggctgtccg 180
 cggacccgga ggcgttcgcg cggaacaggg cgctggaggt gatccacggg cggtagggcga 240
 tgctgggtgc gctgggctgc atcacccccg aggtgctgga gaagtgcgtg cgcgtggact 300
 tcaaggagcc cgtgtgggtc aaggccggcg cgcagatctt ctcgaggggc gggctggact 360
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 tcat 424

<210> 16944
 <211> 166
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-027-Q1-K1-H2
 <400> 16944

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 acacttcaag cgttggcacc aatggcttac taacaagaag gtgactaacg gtccgaagaa 120
 ggtaaggccg ttggccccgg ccggtttcgg cggcaacggc ggcggc 166

<210> 16945
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-B4
 <400> 16945

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 aatgcttcgt cgttccatcc ttccaagccc ttgcactacg tactatcgta gccctctttt 120
 ctttatagct ggtgttgtct attttgattt ggtaattcag gccccgtaga atgttttctt 180
 ttgttttatg catgcaaagg tcgatttggt gataggagcg gtgatgattt tgtggactag 240
 agtttccgat actaccacgg tagtatttga cgaccaaacc cttggctgtc tgagctccta 300
 aatcacagtc ttcgaccact tcgctgttta tatatataca tgcgagatct gcggtcttta 360
 ttttcttctg caatgcaatg gtatgatga 389

<210> 16946
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B6

<400> 16946

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 aacagcgccg caccacctcg tgcggtgagg gatcgatctc atcgatgcga cgctcctcgg 120
 agagcagcgc ctctctctgc gcggtcttct ttggcgcgag ggcgggcggg acggatggcg 180
 ccgaggatga tgcggcggtt taggatctag ggttaggggt cgccgccgcc gtctgagctg 240
 ctgctgagag gttgctgggg tcggaaccgg tagcagctgc tgcggaattc gcgagaccg 300
 ccgacgtgcc ggccttggcg aggacctggc tgtgctcttc gcggcgcttc tggagctgct 360
 tctgctccag ctccgacc 378

<210> 16947
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B7

<400> 16947

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 cagacacgat ggcgatctgc agcgcgaca cgaccacggg cctgcgctcc ccatgcacga 120
 ccgtctcgaa cgcaggctctg aggcagaagc aagtcattct cgtcaccagc aacaggagga 180
 gcggcgccgg caggaggcac ggaggggcaa ggagcttcca ggtctcgtgc tccgtcgaca 240
 agccggtggt gattggcctg gcggcagact cagggtgcgg caagagcacc ttcattgcgc 300
 ggctcaccag cgtcttcggt ggcgcccgcg agccgcccaa gggcggaac ccgactcca 360
 acacgctcat cagtgcacac acgacagtga tatgcctcga cgactaccat tccctggaca 420
 ggaacggc 428

<210> 16948
 <211> 282

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B8

<400> 16948

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 caacggtttc tatctgttcc atgcttacgt acctttcctt ccaatatctt acttcttcta 120
 tcttttcacc taatttcaat tcaactggcct tactttttaca acttctacaa ttgggaaaac 180
 cctaaatgcc acccacttta ctctgccttc cacccttcc ccttttcccc attctcctta 240
 ttaccataa tccccaatcc tatctccttt cccatcattt cc 282

<210> 16949
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C3

<400> 16949

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 gccgggaacc agctcgccgc tctggtcagc aacatgtacg ccacggggtt gcttgacgat 180
 cagttccagc agctccagct gctccaggac cccagcgccc ctgacttcgt ctccgaggtc 240
 gtcacgctct tctgtcagga cggcgagcgg atcatcgaag agctggccaa actgctggag 300
 aagcccaacg tggattttga cagggttgac gcctttgtgc atcagctcaa gggaagcaat 360
 gcaaatattg gtgctc 376

<210> 16950
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-D11

<400> 16950

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gcggccttcc gctgctgggc gctccggcgg cgcggtggg cggtggcggc tgccgtggcc 180
 tcgccaact ccgtgctcag cgagcacgcc ttcaagcggc tccagctcgg gaggacgac 240
 gaggacgaag aagggccgta cgggagcgc gccgacgagg ggttccaggg ggacgaggag 300
 gagctcgcca ttgccaggct cggcctgccc gacgagctcg tcgccacgct cgagaagcgc 360
 gggattacgc acctgttccc catacagagg gctgtgttga ttc 403

<210> 16951
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-E11
 <400> 16951

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 gagctgttga ctgtccaata tggccccctg tacatgatta cccaatcaac actctgggga 180
 tgcggacaag gtgctaaaat cagctgatca tggttttttt ctttatttct attgtgtaca 240
 cgtacaatcc caaccaacgt tttccccttg ttcccatctg attataggct tgtgtatact 300
 gtgggggttaa atgattaata aattctgggtg ttagctaatac aaacatac 348

<210> 16952
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-E7
 <400> 16952

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 caataaaact gggcaaacca ttgataccac cgtatacagt aactcaatac catccaattc 120
 tatgaggatt aaaaatgtat tggaatggat tggatgtat ttgacttgc tataaattta 180
 aaccaactca ataccatcca attcacttag attaacggtg aaacgaacaa ggcctaaggg 240
 gagggttaac agtctaacat cattgtacaa cagcctttcc gaagcccata gacattgtga 300
 gacaagatcc gtaaaccatg aatcgttctt cacttaggat gaccatctta gctggtcacg 360

aaatggtacc gggaatccac aaatctctca acgtcccaga ggaacgatcc tg 412

<210> 16953
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-F7

<400> 16953

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tcccccaagg gccgcgggga tgaaccgat cccgtccgtc tcgctgcggg gcggcggggc 120
gaacgaggac gccgcggcgg cgtcgccgcc ccccgatcc cgcggcgctg tcgcggtggg 180
tgcgggcctt ctgtgtcatc cggttcgacc tgaagcgcg ccagctgttg aaggcctggt 240
tccttc 246

<210> 16954
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-F8

<400> 16954

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gcaaatacgt tccacacatt acagcaagcg gattaggaca attcgggcta cattaagcaa 120
ataaaaagcta cagatttaca gtactagcac atgtgttgtt gaagtcggct gatttcatct 180
ttccaccaga ccaccactga cccctatgta cagcacacag acaaccatcg catccacacc 240
cacactacca acctaggtat ccagtttctg gcagtacgta caccagatcc ttcctatata 300
tgcataaacc aacataaggc atcaagctat catcacaaa tcaacagagt atcatggaag 360
aatccccaaa agctgcccc a tctctctctc catgaagcac acacttgga cttta 414

<210> 16955
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-028-Q1-K1-G5

<400> 16955

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 cgtgccgtcc ttcgccaaga tcgtcaggtt cttgcccgcg caggcgagaga tcagccgcag 180
 gcggcgcgcg gcggtgctgc ccacgccgag ggcgggcgctg tcgggcaccg agaaggcgcc 240
 gtcgagcaag cacgagcgcg tggtcagggg gcacagcacc caggagtctg acgacgcgct 300
 caaggccgnc aagaaccggc tgggtggtgg ggagttcgcg gcgagcgaca gcgaggacag 360
 cagccagatc tacccgacca tgggtgcaact cagccgaacc tgcgg 405

<210> 16956

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H4

<400> 16956

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 cggggaagcg ggagtttggg atgatcgaag acagcaaggc ccgtacactg gacgagagga 120
 tcaagaagca gaggcgtgca ctgatgaacc tacatcttcg tcgccacgac ctgaccaagg 180
 aagtgaccag gacgctcatg gacctggctg agtgatgcag tggactgagc tgagtatcat 240
 ctaagaattc tattttatgg tattttaagt cactgatgat cgattaccag caaatgttgt 300
 atgacctact caagcatggg aggtgaatct 330

<210> 16957

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H5

<400> 16957

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 acgagtccac cggcgatttg ttgttttggg cttcagtgcg tcagccaacc ttaactgcta 120

cgatcggtcg atcaaggggg aggaagtttc tggagctctg cccatggcgt cggcgatgaa 180
gctgctgggg agatctttct tggcgagccc tgctgccgcg gcgcccggac gggagcggcg 240
aggcggggccc tgcttcgccg cggtcggaag ggaggggagc gcgcacagga ggaagtcgtc 300
gctgaggtcg accgcgccgg tgggcgcgct ggccgaacgg gtcgtggtga cgccggcg 358

<210> 16958

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A10

<400> 16958

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catactttcc ctacagcccg ggcgggttca cctaccctac cgtcactcgc cccaagcac 120
tatgccaatg gcgcgccccg tataactgtt cgcgagatag gactagacct tgaagcctct 180
acccttgaa gagagcgaga gatgtatcaa caggagacag ccattagagc cactcagctg 240
gaccgcaagc ggatcaaaca cgcgcatgat acacacctac tagaaggcag tctagttgcc 300
gtccacgtct agctcttcaa ccagccagca tactcgacca cacac 345

<210> 16959

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A8

<400> 16959

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gctgttctag aggttgccg acctgcagtc gacgcctcg ttcattggagc gcctcttctc 180
ggcggactga tacatggacc ggatcaagg caagcagcag gtcattggtcg gctactgcta 240
ctccgacaag gactcctgcc gactgtccac ggctggcag ctgtacaggc gcgatgacga 300
gatggcgcaa gtggccaagc gctacggcgt caagctcacc ttgttccacg gcctgggagg 360
caccgtggac aagggtggcg gtcccacgca ccttgccatc ctgttccagc cgccggacac 420

catcaacgg

429

<210> 16960

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B12

<400> 16960

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gatcgattta gaaacaagaa tcaaaggtgt gcgagccgag agacgaacac gagagcaaat 180

ccttccttaa tattcatgga cagcgcaacg ctgacctgca acaaccgaag ccgaccacag 240

gcatccgcaa gacagcaagt gaagctcaga tcggcggaact gcggccttct gcgcttcgcc 300

taggagccta cggagtactg agaacagagc agcggaggat catggcacac cttcaattct 360

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<210> 16961

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C3

<400> 16961

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taccctggag ttactgaagt ctcttaatct tgacaatcgc caaatcacag atactggttt 180

atcgtctctt acaggtctca ctggattgac acacctcgac ctatttggag ctcgcataac 240

tgattctggc atgagctgct tcagattttt caagaatatt cagtccttgg aggtctgcgg 300

cgggttgatt acggatgctg gcgtgaagaa catcaaggac ctgaaagctc tgacgttact 360

caacctgtct caaaacggca agctcacaga caaaaccctg gagctgatct ccggcctgac 420

tgactggtg tcgttgaacg tg 442

<210> 16962

<211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-029-Q1-K1-C4

 <400> 16962

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 ggatatcccc atgagcaact gtctcaacag tggcatatac aagatattgn tatgactcag 180
 ttcaactcag cttctcttaa ccgtcacatt catcgtaact atcttggtgg cgggatcaac 240
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 tggttccagg gcacagcaga cgccgttaga aaatttatct gggtaactga ggattattac 360
 aagcataaag ctatagaaca cattttgatt ttgtcaggag atcaactcta tcgtatggat 420
 tacatgga 428

<210> 16963
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-029-Q1-K1-C7

 <400> 16963

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 agctgaggtg tctcttaagg aatggataga gcgagcaagt gaaaggtctt ccaggcttga 180
 tagttgcttg gcagcgctac aggagctttc tggaaacctt agcctgatga aggttaggca 240
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 aatctgcagc gtacttgtag ctgtactgtc gggtaacctt aagccactgg tggactntga 360
 tgtccctgag aaatttggtt ggtctacggc cttcattgat cttcagaaag ccataagcgg 420
 tgaacttagc aggcaactgt ccataggtag tgttgcagc 459

<210> 16964

<211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-029-Q1-K1-D12

 <400> 16964

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 atgaccctct gattcggcag gtgggtcccg gtggagatga caacgatctg gatctgaacg 180
 cggagtccca cttcctgagc ttcgtgcagc ggttcggcaa gtcctacaag gacgccgacg 240
 agcacgcgta ccggctgtcc gttttcaagg ccaacctgct ccgcgcgcgc cggcaccagc 300
 tgctggaccc gtcggcggag cacggcgtca ctaagttctc cgacctcacg ccggcagagt 360
 tc 362

<210> 16965
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-029-Q1-K1-D2

 <400> 16965

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 tgatgcggct ggcccgcgcg ctgcacgcc gaggcctcgc gattaccgtc ttccacagcg 180
 gcgccctgga cccggccgac taccgcccg actaccgctt cgtgcccggt accgtggagg 240
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 gctgcgacgc ccccttcagg gccgcctct cggcgctgct ggccgccgag gggagggaca 360
 gcgtccggtg cgtcttcacc gacgtcagct gga 393

<210> 16966
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-029-Q1-K1-D3

<400> 16966

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gatgcggctg gcccgcgcg tgcacgccc aggcctcgcg attacgtct tccacagcgg 180

ctccctggac ccggccgact accccgccga ctaccgcttc gtgcccgtga ccgtggaggc 240

agaccgaag ctgctggcgt ccgaggacat cgccgccatc gtcaccacgc tgaacgccag 300

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<210> 16967

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E4

<400> 16967

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gtcccccttc cttcattgat cgatggcatg cgtaagaacc ttccagagct gccccattgc 120

cagaagagca aagatcaaca ccagggtccag gggcagcagc agtagcgtgg cgaaggggtc 180

accaccacca gccttcaggt tccagtgcag ggcgtcgact ttcgcggcgg acaccagcct 240

ccggctcgag ctggacgaga accccgaggc gatcatctcg ggggcgtggc ccgggaactg 300

ctccctctc agctacgacg acctccgcgc ctacctcgag tcgcaggaga cggcggccca 360

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ggccacagc 429

<210> 16968

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-029-Q1-K1-F11

<400> 16968

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 gcaggattgc atctgaacat acaggactgg aacccatggc agatgacatt ggttctcca 240
 agcaagctcc tgcagatgcc agtgcaatgg ccatcgatga accatgctat gtccataatg 300
 aacctgagag ctcaactaaa ttgcaaggcc aagcatctgc gtaccacaag ccatagctgc 360
 gaccatcaag agttgctggg tatctgctat gcaacttnt gcttgatttg gacagtccaa 420
 aaaacagaag tgaa 434

<210> 16969
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F2

<400> 16969

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 tgaagaataa ataatcactt gatcaggatt gctgttgtag cgtatgacgt ggagtaacgc 180
 gacccaacta aatacatgtt aaacagctaa atacatgact actaccagaa caatccgttc 240
 ccaactaaac aggggttcat gtccactttg ccgac 275

<210> 16970
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F4

<400> 16970

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 ttttgatgat ggtgggtcat gccttggccc ttttgaacct tcaccgtaa taggggtggt 180
 aatggatcgc gatccaaatg ttccttcaca aattcttagg tccttaaata aattttagtt 240
 caaaaatgaa tagaaataga gcccgaaact aatccgagcc ttaaatttta tagtgtaaaa 300

tttagagtcc attgtcaccc ctccgtacac agctattact aatttggtgc tgtattgatc 360
 atagcatggt ttgacctcat gctatgcatg aataattggt ctgaatcttg tgcattgttt 420
 gacctccagc agaggtttgt accactttaa tttagcagtt t 461

<210> 16971
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F9

<400> 16971

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 aaccttctt tcaagtcccc caattctctca gggaccgcgc gttctaagag cgtcatcaag 180
 aactccgtcg actccgtcac cttctgcacc aacacttccg gctcgtcgtc gtctgtgccg 240
 tctaccctc gtacggaggc tgagatcttg gagtcacga atgttcgcaa gttcagcttc 300
 tgcgagctca aaggctccac gaggaacttc aggctgaca gcctgctc 348

<210> 16972
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-G2

<400> 16972

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 cctgaattta tgctacaaaa ggatatgttg aatctcatag agacagcact ctcttctgag 180
 gttgattata gattcaagat tcaaggactt caaacctct acgagtatct tagagatgct 240
 gaaagccaac ttactgctga gagtactgcg aaacctctg ggcagtgtga aataaatggc 300
 agaagtgaag tgtctgttgc tgctggtgct ggagacacca acatatgttg tggtattatc 360
 caattgtatt ggagttctat tcttgaaagg tgcttgata caaatgatca agttcgccag 420
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<210> 16973
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-029-Q1-K1-G3

<400> 16973

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 tttgtgaaca atgccccggg ctggagtacg gcctgccgcc gttcgtcgcc gttctccggg 180
 caagctgccc cgtctcgacg gaaggggtact cgtccccga agagggtgtt aatggggaag 240
 aacttctcag gttgttgat ggcaaggaag agcacacagc tgtccttttc tatgcatcat 300
 ggtgcccttt ctcaaaaga atcagaccag tncctgatga tctgagctca atgtttccac 360
 gggtaagca cttggctatc gaagagtcca atgtcacgaa agccatttag tcgagatata 420
 atgtccgtgc ac 432

<210> 16974
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-H4

<400> 16974

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 ctctttttcca gcacccttgg caccaaaggt ccgggttgag tccatccata tcccaaatg 120
 gtaactgatg aaatcataga gccattaac atgtatcata agttcgtatc aattgatgga 180
 acatggataa acgaagttca tagctcctat aatgaacaga tacacgcata gtacatagac 240
 atcataggat ccatatagta caccttaagc acaaccactg aaagtaggca catgagctat 300
 ataacagcac aggagccatg ctctttctta tcagagttca gtttcttatg acattctgct 360
 agaagatatt tgagaaagca ttccaaacct gcagaagcag agcatatacc tcagcgcccc 420
 ctttcaaagt tgatg 435

<210> 16975
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-A11

 <400> 16975

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 tccgatgatg aagaagtgag gcccggtgca cgtgtgctaa atgttcagta gaaggttcga 120
 accaaaattc atagtcgata tcgtgatttc aagtttggtt tagttatggt tcgttacacg 180
 tgatgcgtaa gacaagagcc gagttgatct caatatgatg ctggtgaacg agaccagcta 240
 atggatgatc tgatcaagtg ctaggacgga cgatgctcac caagtggtcg tcattctaact 300
 aactaacct aatgttatcc cagggtataa gtatgttccg ctgcggatgg tgctaaatgc 360
 cgggtgggctc ggactttctta tataagtata tccgatcttt agcttattta ttgaagattg 420
 gcacttaagc tagcatgtat tt 442

<210> 16976
 <211> 488
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-B12

 <400> 16976

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 ctcggcagtc ggcaactggaa ggacagcatg tcggtctcgg cgtcgtcacc ggcggcggcg 120
 gcgggcgatg agaagcagga ggcggcgccc gtcaggcgct gcaagggcgt caacgacctc 180
 gacaaggctg ttctccgca ggtccggggc agctccgcag aggtgtactt gtatggtggg 240
 catgtgacat catggaaaga tgagcatgga gatgaattac tttttgtag caataaggct 300
 attttcaagc ctccaaaagc tatacgtgga ggaataccaa tatgctttcc gcagttctcc 360
 aactttggga atctggaacc acatggattt gcaaggaata ggacatggag tgttgatgat 420
 gatcctncac catttccagt gccaacctcc aatagcgctt atattgactt gatcctcaaa 480
 cctactga 488

<210> 16977
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B5

<400> 16977

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ttcggggagcc ctccaccgga gtatgacact tgcttgggag acctgtatag tgttgcttgg 120
atggaagaca gtgatttcca caatctgcga actgaatctc tcaagcagca atacaacttg 180
gtcaaggata ggacagcggg tcaagataca ttcagctatg gctcccatgt gatgcaatat 240
ggttcattgg agttgaatgt taagcatctg gtttcgtaca ttggcacaaa ccctgctaac 300
gatgacaaca cgttcattga agacaac 327

<210> 16978
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B9

<400> 16978

aattacggat cgacccacgc gtgcgtttgt gtgtatgtat gagagtcttt gtgcatttcg 60
cgagcgcgaa gggcacgccc ggtaagctgt cctatgacga gagccagatc aaaacgtaca 120
tgtatgtaaa gggcactgac tgggctaacc agtgctggac catcgacagt tgcttcttgt 180
cgttatcgat caaggccggg aagaaccata tgaagaagct ttgactgtaa ccgacgtcca 240
tgaccgcaa ggcaaagggc atctccaagt actcgtctt 279

<210> 16979
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C11

<400> 16979

aatcaccggg tcgacccacg cgtgcgggaa tgcacgcca gcgacgtctt cgtccgttga 60

ctcccccggc ccatacctcct gggcctcgag tcccacgctc gcgccccctca tcgccgcgca 120
gctcaactac ctactctcgc actacaagct gccattaag gcggtacaga tctcgtccta 180
ctgccgcaac ggctgccttg ccaatcgtgc taagctcgcc atgaccttct gcctgcacta 240
ccttcactgg gatcgcggtg acaatgcgct gcctcccaag gaggcaccag acatggagtt 300
cccaacgtaa gatgagagga tccagccatt tgctgattac actgctgctg gaaatggcga 360
taagagctgc taggcgcttt cggattgccc cgcccacgaa ggactaca 408

<210> 16980
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-030-Q1-K1-C6
<400> 16980

aagcccagca cgatcaccca ctccctgacg tttaagacac tcgctggacc caaaaactgt 60
cgcatgcgca tcctcgcgac cgggtcaacgc gggtagacga ctcagctacg agtcgatgct 120
ccagcgccag atccagagcc gattccagca cccactccaa cgcgcgctgc agcaacggcc 180
caccgacca aaaaacccca actgtaaggc cccgacaaca aaccgcttct agcctacaag 240
gcgaatggcg gtctgaagct gctcaatccg gccaccggca gcataccccg taacgacggg 300
caactcctaa ccataaaaca tgccagcaaa agtcgcatca acagccaaac catggccctt 360
ggaaccggcg accttc 376

<210> 16981
<211> 91
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-D1
<400> 16981

cctgaattcc cgggtcgaa caagccttcc gnccaagacc aggggtcaagg aggccataac 60
aacttgatcc gccaaaggta acaaccccag g 91

<210> 16982

<211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-D11

 <400> 16982

 accggtccgg aattccccgg gtcaaatacga agcaagcatg gccatggcgg cegtggggcgt 60
 gggcgggcgca gtggcggttcc tctctcccgca gcgcccgcag ggcgcccgtcc cctggagcgg 120
 cgggccccgg cgggcgcccc tggcggtgcg cgcgtcgtac gagggccggg tgggcgtgat 180
 ggcgaccaag gtgggggatga tgacctactt cgatccggag acggggaagc cggtgccggt 240
 gaccgtggtc gggttccggg agggcgggcaa cgtggtgacg catgtgaaga cgcccgtcac 300
 ggacgggtac gacgcgtcc aggtcgggta ccac 334

<210> 16983
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-D12

 <400> 16983

 ggatcaaaaa ggctgactcc attgcaaagc gaaatcctgc tgtaaaaaata catacatcag 60
 gatcagggca tcgtccacct tcaccggata ggacgacggc cgatccatat actatacaca 120
 gttttcgatc caatcgaacc ctaacatcgg tggatccatc atcatcacag ctcaacaaca 180
 catgtactta attaacaaca acggttggac gcttgttggt tgcttaatcc tgctaattaa 240
 cacgctacta gcaaaaacac gagaagatga tgatgaacag gagcagaagc tcggtatcat 300
 ca 302

<210> 16984
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-D6

 <400> 16984

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ttcgcgagcc cttcaccgca gtatgacact tgcttgggag acctgtatag tgttgcttgg 120
atggaagaca gtgatttcca caatctgcga actgaatctt tcagccacca atccacctgg 180
tccaagggtta gaaaagtgtt caagggttcca tcaacttttg gttccaattt aatccattat 240
ggttaattga attggaatgt aaaccttttg tttcgtacca ttgccccaaa ccttggttacc 300
gttaccaccc cttcatt 317

<210> 16985
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-G1

<400> 16985

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cgggtggctcg ggacgggaac gggacaggac cccaaaatct cagatccttc ctgcccggcc 120
gcccggtgccc gtcgacgcgt cgttcttggc ggcnggcctc acctccgctt tttctctca 180
aggggaatcg atacgccaaa agcttggcca aggtgcttgg ggtcttcggc taccggttcc 240
ttatctggaa ccccggttcc gacttcgacg accaaattct tgggttcac aagggctaca 300
agcgcaactt taatcttgc tgcattgacc acagaagcac aacggagcat tcggcgagga 360
cctggacgct tgaaaccgac gaccaagcca tatgctgggg aattgcatat t 411

<210> 16986
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-G2

<400> 16986

caagcttga taaggaattc attgcgaaag ctataacttt gcctggtcaa ggggagatta 60
tggatatgat ggaagttgca gatcctgatg cagttcatgc tgtccgtaac tttattaaga 120
aggagcttgc cgtgcaactt aaagatgac ttcttgccgc tgtgaaaagc aacaggagtt 180
ctgaggctta cacatttaac catgatagta tggctcgccg tgcattaaaa aatacatgcc 240
ttgcatacct ggcgtaattg aatgacccaa atttcgttga ccttgcactg attgagtcca 300

agtttgcaat taccttgccg aaccagttgg ttgaattacc agcttattcc aaaattc 357

<210> 16987

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-G4

<400> 16987

tgatttgcaa ggaagcattg atcggcagat gtagctccat gatagagtct acaactgctg 60

aagcgggaagc gttgtctaaa ggactacaga ctatataaaa tgacgatttg gaggaaatta 120

gagagctggg ttcaggtact tatggagcat tttatcatgg taaatgaaaa ggatgtgaat 180

ttcgcttggt aaaagattaa aaccgagttg tttttagaaa aaaccattta aaaaaaaccg 240

ttgaattgcg gattcctgaa agaaagtttt aatcttaagt taattcatta ttcaaaaggt 300

ggttcaatth aatgggggtat tccggaatgt tccaattgga acttaaccac tggtaactaa 360

tttattaata atggatcttt taaaccagtt cttagg 396

<210> 16988

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-G6

<400> 16988

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taagggccag gttgcagaat ggagagaaca ctgatcacct ctaacctctg cttgagtgca 120

cacgcttcaa gatcgctccg gaggggtcac tacatcccta cttccgcctc tgctgctgca 180

cacaactcca gctacaggaa gaagagtgcc ccgtctctgc cgccgtcggc cgccgcatct 240

gccactgttg tcaccgccct tccgtcaact gacaatgtcc agtccactgc tccaaaacag 300

accggccgac aggagctgaa agatctctgt gccgccaaga ccagcacttc aagaactgca 360

cgtgcgccaa gccaggctcg gtctcgggct cggactgagc ttcgccgccg gcctgccccg 420

gcagccacgt ccctgccaat ggcgt 445

<210> 16989
 <211> 163
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-H1

<400> 16989

ttccccgggcg gcatcgtgaa ccacctggac tgcagcagga agaaggctgt ggagatcggc 60
 aaggagctgg caaggaagca cttcatncac catgtcttca gggagaacga cttcgaggac 120
 gggaaccaga acctgtaccg cttcttggag cagacccccg ctg 163

<210> 16990
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-A5

<400> 16990

gggtagaccc acgcgtacga agcgtattgg cttccgatct actgaagcgg ttcagccgca 60
 gcagactgcg acgggcgacg aggacaacgc aggctctata catgggatgc cagctatgcg 120
 gcgcctgtgcc ccggttccac ggcttgcggg gctacgccgt gccgacgtcc gcggtggtag 180
 agctgacctg cgagaagctg atcacgaagt aagggtgcct cgaagggcat ccgctgccac 240
 tacatccgct gcgccaccaa cctgggtcatg gtgaccacga 280

<210> 16991
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-C5

<400> 16991

atatatttct ggttttttgg tttttttttt ttttaataaa tgatacactt tgagcaactt 60
 tattattata tgtattatta caaggcacia tggcacatac attcagtgat acaactgcaa 120
 tatacatgaa caccctttgg ataacttctg gtttatctat gcaactgctg gaattcattc 180
 caaaaacgcc ttcggagata aaaaccctgt attttggtag tacatatgca tgcattgtca 240

cgaatgatgg gcgccaaggt catattatc

269

<210> 16992

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-D6

<400> 16992

gatgaacagg aaagccgcaa atcatgacac aaatcacgcg tataacaacca agagtcgaac 60

atgggctggt cctaaagcct ccagtttttt taggctcaaa atgtgcttat agccgataca 120

gatccaaaag aaatgggaca gcaggtgctg gcattagtca gtaggcacac gtacatacat 180

atacagcaaa cgacgacgac agcagcgctc cccacaagtg cgcacatcag atctacaggg 240

tgaaatccag caagtaat 258

<210> 16993

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-E8

<400> 16993

aagcaatact cccctgtgct ctccttgtgc ctgatggccc ttgtcgtagc tgctatggtc 60

tgtgtcatgt acaccacctc ggcacaagca ggaaggagtg gctacaactc gtacgaacct 120

gatggaaggg gtggatacaa ctctgttccc atcaacggcg gtggcagccc ctagctaggc 180

ggtggatcgg agcctgtatc agaaatcgaa ataataaag actgtcttca acggatcaca 240

ctgccgctcc cccacgctaa atttgggggc tacagtgcac acgctagccg atcaacggct 300

cacgctacca ggcgctctac gcggatgtgc cccctagcca gcttctctct cccctcggt 360

ctgtggtgcc tctctcacc cctctaatat tggtcacgtg ggcccacttc caattattag 420

tagatgaaaa attgatagga 440

<210> 16994

<211> 447

<212> DNA

<213> Zea mays

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<400> 16994

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catcgcgttc tcctcctcct ctctctcgcg tcggccgcgc cggttgccgc cgccgtcgac 120
gctggaggacc cgctgatccg gcaggtgggt cccggtggag atgacaacga tctggagctg 180
aacgcggagt cccacttctt gagcttcgtg cagcgggttc gcaagtccta caaggacgcc 240
gacgagcacg cgtaccggct gtccgttttc aaggccaacc tgcgccgcgc gcgccggcac 300
cagctgctgg acccgtcggc ggagcacggc gtcactaagt tctccgacct cagccgggca 360
gagttccgcc ggacctacct cggccttcgc aagtcceggc gcgctcttct cagagaactc 420
ggggagtcgg cgcacgaggc gcccggtg 447

<210> 16995

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-G1

<400> 16995

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tgtccgtggc gcccctcctg ccctgcgagc tgcttctcca gcgaaaaggc tgctgcgcct 120
tgacgcagca ccgatccacc gncgcccac ccttgcggtc tgtccggcag ctaggtagcg 180
agctgcgcgg tggtgcgac cggaagcagg gaggggaaca gggcagcgaa cgccgggcca 240
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tgacaaggaa cttatctcac agtccgacct gcagtcattc taccagcagc agcagcagca 360
ccaccggggc ttcggcgggc gggcggggca gcatagcccg tntcgcgtgg ccgggatgca 420
c 421

<210> 16996

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-G5

<400> 16996

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gttgccgtcg tgctgtcccc gccgtacgtg ggcgggctcc gcctggcgcc gtctaccggc 120
cgggcgcgcg tgctcgttccg cgcggcgccg gcgcggcgcg ggcggtccgt ggcgcgcgcg 180
gcggagctga gtcgcggcgt ggtgatcagc ctgagcacgg gcgtgtcgct ctctctgggc 240
cgcttcgtct tcttcaactt ccagcgggag aacgtggcga agcatgtgcc cgcgcagaac 300
ggcaagacgc acttcgacgc cggcgactag cgcgccaagg agttcgcggt cctgctcaag 360
ttcaacgacc ccgtgggctt caacctagta gacgtcctcg cctggggctc gtcggaacac 420
atcgtcgnct actaca 436

<210> 16997

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-H1

<400> 16997

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tcaattcatc catggcgatc aatccattcc tcgagcaggc caaggttctt ctctgggttt 120
tgaggaagga cccatctgcg atgctcatct aattaagggtt acctggtcat cttgctactc 180
ggtcgcctac aggatcggat agcttactct atctataatc acaccgagca aactgtccat 240
cctagctaca atgggtagca cgcacaagga agaagtaggt gtcttgaggg aaatacttga 300
cgggagaaaa gagccgagga agctatcttt atcagttcta aaacacatca caaatgactt 360
ctcgcacgag cgaataatcg gttatggtgg gtgcggagag gtttacaaga tgaacagggc 420
attctgcana acggaagcgt cgctgtgaag aaaatcttca gcaacctaaa tgt 473

<210> 16998

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-B5

<400> 16998

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gacagcagca tcagcagggg ggaacacgat gagcggcgcc ggtccggatc tgcagctgcc 120
accgggggttc cggttccacc cgacggacga ggagctggtg atgcactacc tctgccgccg 180
ctgcgccggc ctgcccacg cegtecccat catcgccgag atcgacctct acaagttcga 240
cccatggcag ctcccaagga tggcgctgta cggcgagaag gagtggtact tcttctcccc 300
gcgggaccgc aagtaccgga acgggtccag gcccaaccgc gccgacgggg ctgggtactg 360
gaagccacc ggcgtgaca agcccgtagg cagcccaag ccgctggcca tcaagaaagc 420
gctcgtcttc tacgccgggc agggcgccca agg 453

<210> 16999

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-B8

<400> 16999

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agtcgctgta caggtatgga agagcgaagt atatgaagtc ggcaggcgag ccggaggatn 120
gtccgtgcct ggaaccgtgn ntcgaccata tcgtgatatc ctggagnngg ggtggacaaa 180
cctnncgcca nntectcgcc gaagccttnc annagtccgt cgccaaccat tcactnnngc 240
aagcccgagg cccctacgtg atggttggtt ctcaaagggt tcgggggtgcc taatggcatt 300
tg 302

<210> 17000

<211> 275

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-C2

<400> 17000

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catggccgcc tccgcctcca ccgtctccgg cctcgccggc gcctccctgg ccagccgccc 120
ggcgtttctcc accagcttca cgcggggcag ccgggtgtcg gcgaggaacc ccctgatgag 180
caggaacctg gagaggaatg gcaggatcac ctgcatgacg tttccccggg actggctgcn 240
gagggacctg agcgtcatcg gctttcggct catcg 275

<210> 17001
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-C6

<400> 17001

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accgtgatga ccgcgcgcct cggccccgcg cagcaacccc acggccccac gcgaccgggtg 120
ccccgcgcgc tcaggccgcc ccgacggccg agccgaccaa ccagctgtgg tcgagcagcg 180
cgcgccagag ccccgccgac ctccagcgac ccgaccgcac cgaccccaag tcgcgcgtcc 240
ctagccaagt cg 252

<210> 17002
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-C7

<400> 17002

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cacaaggctg aggatgtctt gcagctgcgg atcaagctgc ggctgcggct caagctgcaa 120
gtgcggcaag aagtaccctg acctggagga gacgagcacc gccgcgcagg ccaccgtcgt 180
cctcggcgtg gccccggaga agaaggccgc gcccgagttc gtcgaggccg cggcggagtc 240
cggcgaggcc gaccacgcct gcggctgcgg tagcagctgc aagtgcgacc cctgcaactg 300
ctgatcacat cgatcgacga ccatggatat gattattatc tatctaactt gaggtggtgg 360
gtgaacaata ataagcgaag ccgagctggc tgacatacat aggtatcgtg tgggtgtgtga 420

<210> 17003
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D5

<400> 17003

ccaataattt tttttgtgat ttcgtatcaa ttctactcat gaactctttt atgggttctg 60
ctacatttac actacaatat aattcgtgaa tgctatgtgg cctagagttg ttcttactac 120
aatctattca gtatgcacct gatgggtggt tgtgtgtgtt tctcctggaa tcatgtgcta 180
cagatcccca gcacgtaaac actggacgag tggtcgggtgc tatgatcatt gctgctgcgc 240
ctggagctcg gcctgcgtga caaacatgcc gtggaag 277

<210> 17004
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D6

<400> 17004

accggttcgg aattccccgg ccttcaactca cctccccccg cggccccgcg caatggccga 60
ttcgccaaac cctagctccg gcgaccttc cgcggggcgt ggggtgctcg cgagagaagcc 120
ggccttgggc gatcgacgtg tgtctgcgct cgccggcgcc ggcgcgaggt acaaggccat 180
gtcccccgcg cggctgccga tatecgggga gccgtgcctc accatcccca ccgggttttag 240
gccccgagct ctctcgagt cccccgtcct tcttaacaac ttcaagggtg gaccggcttc 300
cacaaccggt actctgag 318

<210> 17005
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-E6

<400> 17005

taccgtttcg gaattcccg tgcactcacg cgtccgcacc agcaaagtga gtgtgatcga 60
tcacacactg cacacactgc catggccgtc atgggcaagg aggacgagca ggagcagcag 120
cagcacaagg aggaggaggt ggtccaagga gatgtgagcag tcgtcgtcca gcaggagacg 180
tcggcggacg aggaggccga gtcggcactg gtgcgcaaga tctccggcct ggccgncgcc 240
atcgccaggc tgccgtcgct gagcccgtcg ccggaggtga acgcgctct 289

<210> 17006
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-034-Q1-K1-E7

<400> 17006

aagcaagctc gatctactac tactactagc tggtacacat actagccagc ctgccagcca 60
gcttgccatg gcgcccaccg tgatgatggc ctcgtcggca accgccgtcg ccccggtcca 120
gggtctcaag tccgcgcgca gcctccccgt cgcccgcgcg agcaccagga gcctcggcaa 180
cgtcagcaac ggcggaagga tccggtgcat gcaggtgtgg ccggcctacg gcaacaagaa 240
gttcgagacg ctgtcgtacc tgccgncgct gtcgacggac gacctgctga aacaagtgga 300
ctacctgctg cgcaacggct ggataccctg cctcgagttc agcaagctcg ggttcgtgta 360
ccgcgagaa 369

<210> 17007
<211> 138
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-034-Q1-K1-E8

<400> 17007

ccggtttcgg aattcccggt ntcgaccac gcccgctcgt gcgcttcctg cctgcnntga 60
tctcgcactc tcaaactcca ctactactag cagcatcagg aggtgtgaga atagaaatgg 120
ccagtctnnn gtggaaga 138

<210> 17008
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-F1

<400> 17008

ggaattcccg gggcgaggca aaagcgcaaa cgcgaccaca gacagagcgc gtttcaaggc 60
cttttttttt tttgagataa caaggaggag aggaggagat ggcggtcacg atcacctggg 120
tgaaggcgag gcagatcttc gacagccgcg gcaacccac cgtcgagggtg gacgtggggc 180
tcagcgacgg cagctacgcg agggggggccg taccagcgg cgcattccact ggaatatatg 240
aggccttga gttgagggat ggaggatctg attatcttgg caagggtgtt cttaaggctg 300
tcagcaacgt aaacaacatt attggaccag cgattgttgg aaaggacccc actgagcagg 360
ttgagattga caacttcatt gtccaacagc ttgatggaac cttcaatgag tggggctggt 420
gcaaacagaa gcttggagca aatgccatcc ttgc 454

<210> 17009
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-F6

<400> 17009

tatctggtgc acatgcatag ccgactgtag gtctttggga caaggacagg tgcattgtggg 60
cccaataact tagaggttct gccacatggc acaagaagaa taagaaatat gcatttgtac 120
caaacgaaag agacatgatc aaaggatat aaatgagcaa tgtgtgcaat ttttcaatcg 180
aagttctgag aatctaagat gtttagctc 209

<210> 17010
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-034-Q1-K1-G1

<400> 17010

ttctttctcgt gctgtcaccc cttttcttcaa tgcctccccg attccccgcg ggctcgcaga 60
 tccccgaagg acacccccgcc gcccccgatg agccgccacc gggtcgagac ctgcgactcg 120
 tggcggtcccc cgcggaagaa ccacgccggt gcgcgcgcgc tcttcgcgcg ggggcctcgg 180
 ctctcgcct tgcctcgtct ctccgtccgc gacggcgggg actccgcgcg ggccgtcgcc 240
 aaggcggttg aggaggcggt tgtcgtacga tccgatgagg tgaaggaggc ggtggccggn 300
 gaggagagga agaagacgaa gtcggcggag cgcaggctgc cccccgcggc gcagctgggtg 360
 agccatccgc tcgcgtgct ggcgctagta cccaacagcg ccgcgatctt t 411

<210> 17011
 <211> 368
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-G4

<400> 17011

ggattccccg gtcgactcac gcgtccgggg gagctcgccg cgcggtggcg ggaggtccac 60
 ggcagcaaca actgggaggg tctgctggac cccatcgacg gcgtgctcct ccaggagctc 120
 atccgctacg gcgagttcgc ccaggccacc tacgacagct tcgactacga ccgcttctcc 180
 ccctactgcg gcagctgcaa gtacccggcg aagaccttct tccacgacgt cggcctcggc 240
 ggcacgggt acgaggtcac ccgtacctc tacgccacct gcaacgacct caagttcccc 300
 aacttcggca tcaagacggc cgncaacgcc aagatgtgga gcgagtcgg caggttcac 360
 gggtagct 368

<210> 17012
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-H4

<400> 17012

accggttcgg aattccccgc tcgactcacg cgtaagccgc ggttcgatgc tctgacgccg 60
 aatgagatga gcggcgggag gcccgaattc cggaagtgcc ccatgccgca gcaccggttc 120

gcgccgtca agcgatgctg gatggaaatc taaaacccg tatacgagca catgaagatc 180
 gatatacgca tgaacctcaa ggtactggac tggagtctac ccatattggg ctttcttgtt 240
 ttatgtgaat gagcttttcg tgctctattc cttgcaagaa ccatagattg tataacttcag 300
 atcgccgtca agaagctcaa cccggagagc gtccaaggcc tgcagagtgg caggataaca 360
 tggagaactt caaccctttc ggtgagaatg gagagtangg tacaggggtca ccat 414

<210> 17013
 <211> 228
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-H7

<400> 17013

ggaccaagtt gtggggccat ataataagag acattggtag ctgacattga atgttatctt 60
 gcgaataact tggatgtaga ctagctgtct tgagaatcct gtagacagtg gggctagaat 120
 taaacaactt gaacatctga ttgtacaagt aacctcttgt aattttattt taacacataa 180
 ggaatgatac tctagagaaa gatattgttg tccattcatg tcttgtat 228

<210> 17014
 <211> 317
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-H8

<400> 17014

cggtcgcacc cagcgtacg cggngacaac tgcttcaccc ctgccgtcgc cgccgcccta 60
 cgcttggtgc ctaggtgttc atcggtcgt tcaccgggca caagcatcac ccagcagggt 120
 ttcttgcctt atctgtttta gactgggacg gcttctaccc cgacgaccaa gccgtgcctc 180
 ccctgttgcc ggcgtcgccc cttccccacc agtgaaactc gcggtctatc tacaccgnac 240
 gcacctngtg taagtgtcgg cgggtgcacc ccctgtagcc ccgacgttgg gtccactactgg 300
 ttcattccgg ttggttt 317

<210> 17015
 <211> 279

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-A12

 <400> 17015

 ggaattcccg gctcgacgca cgcgtacgcc cacgcgtgcg tgcttacaca ttctatttat 60
 ttctgtcagt agtatattga gactgagtca ggtgtgtgct agacattggg aaatgtcaaa 120
 tggagcgcag aggagccatg cgtcggatta tgctgctagg tgtacgagaa catggcggca 180
 tggctgatta ccaagaacac ccttaagatc atgcccttca agtccccgac ctttgtgatt 240
 ctattatttc ctacgtgcac atgatagcaa tggggattt 279

<210> 17016
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-A3

 <400> 17016

 cggattcccg ggtcgactca cgcgtccgga ataacttagt gatgcctgaa gctgcaaatt 60
 ttactgggaa atcagctttc acttcggttc ggggccatgt cactgatcag tgctccacag 120
 gttggtttgg acctattgag tcaaattccc acacagacca tgcacgtca agtttgatca 180
 ggtcccagcc tttggttatt ggaaatgatg ttcagaaaac caaaggcact tcattcaaac 240
 tatttgggat tcctcttggc agtccagaaa aatctgaacc tctggtatcc ccaccaagtg 300
 tcgcatatga cgggaaactt caaacttctc caacagacaa caatgagcct tgttcagaag 360
 ctaccagaaa tatccagaac aaagtgccaa gtagttcaac cagaagctgc aag 413

<210> 17017
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-A6

 <400> 17017

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 gctgccagcg acagaagaag aaggggtccc ggctggtgtg gttgcgttgc gcctccctcc 120

tgtctgcgtg cgtgcaatcg acgcacaggc gcgggcgctc gcaccaccac gaccacgacc 180
 cgatggcttt catgcgctcc cgctcaaata catcttctgg catgggagtt gctcctaaca 240
 ttagggagac attcgctcgag cttcaaata agaaggcatt ccgatatgtt atcttcaaaa 300
 tcgaagagaa gcaaaagcac gtgggttgcg agaagacagg ggctactact gaaagctatg 360
 atgactttat ggctctctt ccagagaatg actgccgata tgcgctgtat gatattgatt 420
 ctgctactgt ggagaatgtg ca 442

<210> 17018

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B12

<400> 17018

ggaattcccg ggctcgacgcc acgcgtccgc aaaagccggt ccaactgggg ataaaaccca 60
 tgtatccaca caagtcattg gtactcagtg atatgcagct ccagagtaca ttgcaacagc 120
 ttttaaaggg agatgtcaat aatacttcct agtcttctac aaagtgtgtt ggcaaaccac 180
 caaaggagac ctcatggctg taattgaatc cttccaaaac cagcgtgca acgatctaaa 240
 cctcctaaac aaagcaaaca tagttctcat cctgaaaaaa gaaggagcaa atgcatcacg 300
 gactaccgcc ctatcagcct catccactcg gtggctaagg ttataacaaa gatcctagca 360
 ctccggctag aacctctcat ggataaacta atctcgcaat cacaaagtga gctattatca 420
 tcatgacgtg gtgcatctgg aggtgcagaa acaattggat ct 462

<210> 17019

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B9

<400> 17019

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 ctaaggcgac ggagaccgcg agggccgcga agtatgctgg gcagcgatga tggcgacctc 120
 tgccagcggc gtctccctcc tctctact cgcccatccg gcgccgccac cgcaccccg 180

caacggcgcc agcaggtaca cacacagtca gagtcagtgg ccacgcagct cgatccgcgc 240
ccacctctg catgctctca ccgtcaagcc gcgttcggtt cgcagcctgt ggcgcggcag 300
tgggcgccgcg ctagctcctc atcctgctcg cttcgcggtc aataggaaga cgctccgggtt 360
ggttaacgtc agcgtcagct gcagcgccga ggcgctgcgc tccgactgcg ctggcgcgga 420
gccggctgag ccgcgggtctg tgc 443

<210> 17020
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D10

<400> 17020

ggaattcccg ggtcgacgcc acgcgtccgc ccacgcgtcc ggcaacatag aaagcacaat 60
agtgtaccaa caatggcagc caaaatagtt tggctcctta tgctccttgg tctttctgca 120
agtgtgcta ccgcgaccat tttcccgcaa tgctcacaag ctctatagc ttcccttctt 180
ccccgtacc tctcaccagc ggtgtcttcg gtatgtgaaa acccaattct tcaaccctat 240
aggatccaac aggcaatcgc agctggcacc ttacctttat cacccttggt cctccaacaa 300
tcatcagccc tattacagca gttacctttg gtgcatttat tggcacaaaa catcagggca 360
caacaactac aacaacttgt gctagcaaac cttgctgcct actctcagca acagcagttt 420
cttcattca accaactagc tgcattgaac tctgctgctt at 462

<210> 17021
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D12

<400> 17021

accggttcgg aattcccggg tcgagccacg cgtccgcca cgcgtccgcc cacgcgtccg 60
cccacgcgtc cgcccacgcg tccgattcgt tccggctcct gagcactttc tcctcgctcc 120
agacaagcca atcgaagccg agatacgacc atggactcca ccggcaccgg agcaggggggt 180
aaggggaaga agggagcggc cgggcgcaag gtcggcgggc caaggaagaa gtcggtgtcg 240

agggtccgtga aggcgcgtct ccagttcccc gtcggccgca tcgggcgcta cttgaagaag 300
ggccgctacg cgcagcgtgt cggcaccggc gccccgtct acctcgccgc tgcctcga 360
tacctcgccg ctgaggttct ggagctcgcc ggtaatgctg ccagggacaa caagaagact 420
cgattat 428

<210> 17022
<211> 461
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-035-Q1-K1-E10
<400> 17022

ggaattcccc ggtcgacgcc acgcgtccgc ggacgcgtgg gtgctgatcg tgcagtcaag 60
gctatagaat ctctacctga tagcgacgac gaggatgttc tgacttcaag gcgtgctctt 120
attgatatca cagaaagagt catcacacgg acaaaatagg aagggtgttcg gcgtccataa 180
ggtgaatgga gagctgaacc tcgcctttgg cctagtgttt cacttggatt ttcttttttg 240
tatacttcgg ttcatatgat tcttttcgca gccaaaaccc caagttttgt gtatcattgc 300
tgaaatttag gattaagaaa tggccctgca tttctgggaa gcttctagag gttttggctg 360
catgtggcaa caaatatat gtcaccgatt gcaatggcac cagatatcgt gtagccatat 420
aagtgtggga gcattgtacc caatatacac ttccgtaaag a 461

<210> 17023
<211> 436
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-035-Q1-K1-E3
<400> 17023

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cgccgctctg ccgctcgctt cnngtctccc ttgtagaggg tgctcgggga ccngnatgga 120
acttggcctg agtacttttag gtnnagagaa tcngnngttt ttctttgtct ttctagcctc 180
ggggtctgct ttgcgtnnct ggtggtgnnn gtgaaggggg nnagaaatnn tcgtgagaat 240

nncgtgtctn cggatctagg tncgtgcntg agcctcgnnn ggaatnncag gngnntttc 300
 actacctata gcnnctcgtc ngnnatttga naatttnnga tgtacctaan nntggagtct 360
 taaggggggt ggcaannaaa gtcttagnnc agtagnttcg ttcttatttg atgttnnatga 420
 agcttccnnn ccttgg 436

<210> 17024
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F1

<400> 17024

cggtcggaa ttcccgggca gcaatccaca caagcacttc gacgtcacac gggcgctgca 60
 cacagacaca ccaagcgctg gcaccaatgg ctggactacc aggaggtgga ctactgctcg 120
 gaggaggtga ggctcgggtggc cccggccggc ttccggccgcc acggcggcgg cgtccagcag 180
 cacgtcgtca aggagaagtt cgaggaggtc gacacggctg cacgcgccgg cgccaaccac 240
 caccaccacc atggtcacca cggcggccac ggcttcgtgg tgcgcgagac cagggtcgag 300
 gaggacatca acacctgcac cggcgaggtc cagcagcgca gggagagctt cctcgccagg 360
 gctaactgag cagccccggc ggccggcacc cagccccgtt cgtgcctgcc tgcgtgcctt 420
 atgtatgtct 430

<210> 17025
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-035-Q1-K1-F12

<400> 17025

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 cggagtggac gtgacctcag acctgacaca ttcacagtgt cacgtgcct caacgtcatg 120
 tctctcctcg cctcccccaac gccgttcggc gtgaccgcca tccgccgccg cgtcgccccg 180
 ctctctctcc tccctgctgg cggtcgcgcc gccttgacg tggccctcgc gcgcgcggc 240
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ggggtcgtgg cgccccgacgt ggacgaggac gcggcggagg cggnggtggc tgagtgggaa 360
aggagagccgc tgggggttcga ggtgtcgacg gagcccatgc cgcg 404

<210> 17026
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G3

<400> 17026

ttggtttttt attcaatcac gagtatagaa tattgggttt gcatgcacaa aaccagtggg 60
aagaacttat ctaatagctc aaactgtctc aaaatctcta tgctacaact gagctaactcg 120
ttctccgcag gatgggatag gataatctgt caaaatgggt gttatagacg tcggttaacg 180
gtaatggtgt acacgatgtg gaaagaattc cctatatcta tgttcactgc acgaggggcg 240
cgaactatga acacaacggt gagcgacatt ttaggcgttg aagagcttgc ggaacggccc 300
atccttgcca tctttggcgg cctctgtcaa tgcaaggaac ctcttgaagc ccgtgggtggc 360
tgctccgcgc cc 372

<210> 17027
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-H10

<400> 17027

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tgctgcttcc ggtggtaacg gttgtggccg gggagaccgc cgcgcacccg ggctacgcgc 120
acgtgagga ggcacgcagc ggtatgctag aggcagaggc ggagaaagca acggtgctgg 180
tgctgcgcc ggagcggcgc gaagagtctg acggcgggcg gatcgtggac atcagccact 240
actaccgca ggacatgccg gagggggagt catcagaggc ctccggcgag ttcctgcagc 300
tggcgcggtc catgcgcaac ggctccgaca tcgctaactt ctccggagctc cggtcactg 360
cgactccgg caccacgctc gacgcgccgg gacacgtctt cgagcactac tacgacaccg 420
gcttcgacgt cgacaccctc gacctcgctg tcctcaacgg accagcgtg ttg 473

<210> 17028
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-H12

<400> 17028

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ctgcttcctg gtagccgcgc ccagcttccct ctcttcgcgc cgccccctgc ttctccttgg 120
ccgggggcttc atcctctccc tgctcgccat ggctggctga gctttttttc cagccacgaa 180
gtcccatgg ccgcgcagct cagcctttgc tctcctcgc gtcgcgcgcc tggcttgctc 240
tccagctccc gtgcacgccc ggatcctctt cctcccaggg gtcgggcgc atctccatct 300
cccagcaagc gccctaccga agcctccca tggcgcttgtt cctccttggg gccgagtctc 360
tctctgcaa tcgcccattg cgcgcagccg cttggccttc ctggtactcg ctctccctca 420
gtgccctgtc cctt 434

<210> 17029
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-H5

<400> 17029

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gtcgtgtgcg ctgcctttg ctccctcgc taaggtagt aacctcgtt gctgatcaag 120
gctttgacgg cggcaccac gttcttcct cgcgcctcg ttgcgtccgc ccgcccagcg 180
ccaactcctc gtactcgtac ataaccacg accccaccgc gtacagcgtt ccctctcgcg 240
ccccgcggtg agctaccccc gctgcctta gctagctacc caccatggcc ctaccgcgt 300
cctcctcgcg gtgcgtcgc ttgcacgcg cagcgcagtc cagccccctg cacctgcacc 360
ttccgaccaa ggcgcccggc cgctcccgc tgctcccctt ctgcgcgcc gaccatcgt 420
cgtcgc 426

<210> 17030
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-H6

 <400> 17030

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 ttccaagaag cgcagcgccc atggccatgg gcacgcaagc ctccgccgcc acgcgccacc 120
 tgctggccgc cgctggggcg ccggcgggca agccgcggca gctgagctcg cagctcgcg 180
 tgccgtcgtc gtctcccgc gggccggccc cgctccgcgc gtccaccgag gaggcggtgg 240
 aggcgccccaa ggggttcgtg gccccgcagc tggacccag cacgccgtcc ccgatcttcg 300
 gcggcagcac gggcgggctg ctccgcaagg cgcaggtgga ggagttctac gtcatcacgt 360
 ggacgtcccc caaggagcag gtgttcgaga tgcccaccgg cggcgccgnc atcatgcggg 420
 agggccccaa cctcttgaag ct 442

<210> 17031
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-H7

 <400> 17031

 aaataaaaaa aaaaaaaaaa aacataaata aaaaaaaaaa aaaaaaaaaa atcagggacg 60
 gaaaataaca aaaaaagggg caaccaatct ataactatcc aaacttacta acgcgtgcat 120
 gcactatttt atctattcta tcttctccct taattccatt tcattgccct tcaatttcca 180
 accttaactc cagtt 195

<210> 17032
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-036-Q1-K1-A10

 <400> 17032

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 cctcctccgg cgcgacccca gccgcgtccg gctccgtctc cttcgccccg gcggcgcggg 180
 ggctgccctc cctccgcctg gccccgcccc gccgcgcggg tgacctcgcc aggccccgcg 240
 ccgcggccga tgccgcggcg gagagctacg cgtccgcgct gtcggacgtg gccgtcgaga 300
 acggcaccct cgaacagacg gtctccgacc tggagaagct ggaaaaggct ttcgcggacg 360
 aagccgtcgc cgagttcttc gacaacccca ccgtc 395

<210> 17033

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A12

<400> 17033

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 gtccatgcca gccactgccg ctgcaccgct tcttctatc ctccggctcc accccgtcct 120
 cgcaatcgca acatcacaag gctaacctgc atcgccgccg tgcgcgccag cgctgcccag 180
 tccgcgcaga tggaacgcag gcaggaggcg aaggttgtga agctgcgggc ggtggaggcc 240
 acgcccagat ccttcgcttc gttcgggcag gtcacggcg cctccccga cggcgacgag 300
 ttcggcccc acgacgcca gctcgatctc agccgcggca tccaagggt ctacatcatg 360
 cggttgcaaa accggccgct gaaattctct accatcacc accacgccag c 411

<210> 17034

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A2

<400> 17034

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 tataacaacat gctaaccgtc cattccaatt caatccaagg attacgtaca agaaaacaag 120
 agcatcgcaa aacgatcctc actcgctactc ggagctacat aacgtacgta cattcaccct 180

atctagaccc tattcgacac catctacgca ccgctataca aagcagatca tgctgatata 240
cactctcaaa catctgaaca 260

<210> 17035
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B1

<400> 17035

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gccgatccta gtcaaagggg tctgtaactgc agaagacact aggcttgcca tcgaatatgg 180
cgctgctggg atcatcgtgt ccaaccacgg cgcgcgccag ctagattatg ttcttgcgac 240
tatcagctgc ctggaagagg tctgcaggga agcgaaaggc cggctaccgg tgttctctga 300
cggcggcgtc cgcctgtggc cggacgtctt caaggccctg gcgttgggag cttcaggagt 360
gttcacgcgc cggcccgtgc tgttctctgc 389

<210> 17036
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C4

<400> 17036

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ggggaagtgg tattggtggt cgtcggggta ctggagcgaa cctaacgata gtacgcatgc 120
gggccctatc tatctatcta tctatctatc tatctatcta tctatctatc tatctatcta 180
tctatctatc tatctatcta tctatctatc tatctatcta tcttgtgttt ctcttcatgc 240
tattgtatcg aataaaagaa tttgcctgta attttaaccg gctagccgcc ggtgtcttcc 300
ttgatctatg tgcagttagg cagacgttac ccagcagtta atatagttat attaactaat 360
gcctccttca actatgcgtt gggcatggga gcattagccg aaccacctca ggacagctct 420
gccgacggtg tgatcttgat caaggatatg gccgaatggc aa 462

<210> 17037
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C5

<400> 17037

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 taacgatgga aaggataaca tataataact ctcttagata ctgagttcca ctacaaaaaa 180
 aagacacata agcactctca gactctcatt cttcacagca tcgacccatg accgtacagt 240
 ctcatctctca tctgattgaa gaggataccc tttctaatagc catttattta cacctctata 300
 tcgatcaacc atactccgtc ggacagttac tacgcctgaa acccaacatt tcaaccccaa 360
 agttcgaa 368

<210> 17038
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C8

<400> 17038

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 ccttgctcac caatactcat tcaccatccg aagatttctt cacaggtcat gaactatcca 120
 ccttcctact ccttcaactct ctcccttttc atttagcctc ccgctcttct ctatcccttc 180
 tccattccca accatctttt cagttttttc cgctattgcc cgatacccat ccacatccag 240
 ctcacgacta acctcatccc cctcccttct tcttctcctt cctcctctctc ctectctccg 300
 tcttctactt cgttctcggc cattgtca 328

<210> 17039
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D11

<400> 17039

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taagaatccg cttaaattggg gggatcttat caatttggaa ccggagattg aaccttggcc 120

tgaaccaagg cccagaagg attcaagtca ctttctgaaa gacctgggaa acttttttca 180

agagaatgct gatcagtctg atgagatata gaatttcaga aacatatctg acaaggctga 240

aaaaatcatg gaggaatatg accggctgca aaagaaactg aaacagctgc aaggagagga 300

gcgtaatcac gacgagagga gcttgtcacc tagacaaatg gctgcgtcac tgaagcgaaa 360

gagtctatca gagcctagat atccagagct gcagattcca gagaacattg aacaattctc 420

gatgtcgcaa atcga 435

<210> 17040

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D7

<400> 17040

ttctgcagtt cctatggcaa agcctctcaa tggcagtggc cgtagcatgc caggagggaa 60

tgaggggaatg cggtcatat ttctggcagt tgtaggtgtc atgctgggtt acctgtttgg 120

gatctccttc cctacagtca acataaccaa gtttcacttc ctttcgagta tcatctctta 180

tatcgaagat aggaactctg gcatcacaac ccagacattg ttgaaccatg cttgggcattc 240

tgcaaacaat cataaaaaga atagttctga atctaact gatgaaattc ccgagattta 300

tgttcctaca aacccaaaag gtgctgagag acttcaccca ggcattgtag tgtctgaaac 360

agatctttat cccgaagac tattgggtgg atctagtg 398

<210> 17041

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E10

<400> 17041

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 cgccctgtcg ctgacgctaa cgcttgccctc ggcatcacca gctgacgggc aagggggcgg 180
 aggagcacac tgcccggccg tgctatgcgg cggcgtggag atcgccctcc cgttcgggat 240
 cgtccaggag caggcgacgg ccaccaactg cggcgggatc gggttccagg tccgctgcgt 300
 caacggcacg ccgtacctcg gatacagccg gtacgaccac tggctccaga tcctcagcgt 360
 ctctacacc aacgcctcct tgctcgtcgc cgacaccac aagctcgaga agctgggagc 420
 ctc 423

<210> 17042
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-G11
 <400> 17042

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 ctgctccctt ttacacactg cagttcgcca aagaaaatgc tcttgagctt gaccttcag 120
 cgatcaagct cggtgagcac gaagacgtaa ccgaggaagc cgtgtctact actttgagaa 180
 gggcaatcag ccgtctttct actctccagg cacatgatgg aactggcct ggggattatg 240
 gtggccctat gttccttatg ccaggcttga tcataacatt gtatgtgact ggagcactaa 300
 aactgtctt gtcacagaa caccagaagg agatccgtcg gtatctttat aatcatcaga 360
 atgaagatgg tggctggggc ttgcacattg agggccaag caccatgttt ggctcagcac 420
 tgacctacgt tactt 435

<210> 17043
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-G4
 <400> 17043

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ccggcggggcc catgggggga cgcctggtgt ccatgctccg gtggccgccg gacctgggccc 180
tgcccagcct ggccgcgctg ctccccgcgc cgcccgcgca cctccgggtc caggtccagg 240
agtgggtggca gtggcagtgg cagcggtcgc ggcccagca gctgggcgcg gcggcgcggc 300
ggtggcccga gtcgtgcgg gacgtcccgg tcttggtgga cgccgcgctg tggggcgctc 360
tcacgggcgt cgagtccgtc gcgctcgtct ccatgatgtg ctgcttct 408

<210> 17044
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G9

<400> 17044

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gccgcaatgg cgagcagcac catggcccgc tgctccacgg cttcgcggg caaggccgtg 120
aacgtgccgt cgtcgtccgc cttcggcgag gcccgcgta cgatgcgcaa gacggcgggc 180
aaggccaagc cagcggcggc gtccgggagc ccgtggtacg gccccgaccg cgtgctgtac 240
ctggggccac tgtccggcga gccaccgagc tacctgacgg gcgagttccc gggcgactac 300
ggctgggaca ccgcggggct gtcggcgga cccgagacgt tcgccaagaa ccgggagctg 360
gaggtgatcc actcccgtg ggccatgctg ggcgcgctc gctgcgtctt ccccgagct 419

<210> 17045
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H1

<400> 17045

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cggtttcgtg ggtgggcggg gcgagatggc tgcgtcggat ggtgagtacc gctgcttcgt 120
cggcagcctc acctgagcca cggacgacca ctccctgcac aacgccttca gcacctacgg 180
cgaggtcctc gagtccaaga tcatactcga tcggtagacg cagaggtccc gcgtgcttct 240
gcttcacac cttctccacg gaggacgga tactgaacgc catcgacggc atgaaccgca 300

aggaactgta cctacgcaac atcaccgtta acg

333

<210> 17046

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H12

<400> 17046

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aagggctatg aatatgatga agaacaatca attgggttgaa cggctaggcc ttggacaatt 120

gaaatcactg gtgactgcta cagctgcaaa caacaaagaa gactgtcttc agcaatcaga 180

gagtttatat gatgggtgaaa aactgacaa ttctaataa gaggaatccc aatgtactaa 240

cggtggttgt gccaacatct ccaatgatgg tgatcagatc tcaacaaaag taacaagagg 300

aaataaaaata attgtggcac ctacggagga gcgaacaatt agagtcacta ggcaaagaat 360

tgctaaaagta aaccaagaaa atagccacaa cctgtctatt cataaacaac tcagttcatg 420

tcttgctaca aaccatgatt cgatagaaac tcttgt 456

<210> 17047

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-036-Q1-K1-H6

<400> 17047

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ccgaggctag gcagtccatc tggtgggggtg gccagtgggg atctcgccgg ccgggaggtc 120

tggggggcgg gggctgccaa acttcgccat attggtgaat cactgaatcc gcccttgcca 180

gcaaccgttc tgacgtggcg ggggtggggca ggatccaaat ggcgggcgga atagaggaac 240

tgcggtcctt gggatccatc cctgtactgg aagggtccggg agaggtcgac ggcgtggtgg 300

gtgaggaagg gcgaccgcga ggcggcgggc acgacgagga gatcctgcga ttcattggact 360

cggtggacag ctacctgttc ctcatggact ccctatcctn cgctcttcgt caggtatgcg 420

atcctgcag 429

ggaattcccg gctggacca ctcttctctg gactcttggg catactcatg ggcttttaaa 60
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 cgaacctagg atctcaatcc ttttgcgcac ctctcatcat actcctatcc tatctagtat 180
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 aacccttcga gtcagtactc ttcaaccacc ttacttcat ct 342

<210> 17051
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-B3

<400> 17051

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 gtccgcagaa gtccgcgtcg acctgatcgt ctcgggggta cgaggacgag gggaagtcgc 180
 ggcggtccgcg gttgtcctgc cactcgtact cgtcgcaagg agaacggaag aggaagcccg 240
 tatctctctc ggcccggctg cccgcgcgaa ccgatggaac tccgagcact gtgatctcgc 300
 gcctgggccc tcgcgaagcc gtttctacgc ggctgcagct cggccacagc gatcgggccc 360
 ggatggacga gctggagatg gacgaggagg tcaggcccga gttcccctgc ccctactgct 420
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<210> 17052
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-B6

<400> 17052

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 agctccgcgt cgctgcccac gctccggaat gccacctccg acgacttcat gtccgccgctc 180

tccttcagga cccacgcggt cggcacgagc ggcgggtcgc ggcggggcgcc gactgaggct 240
aagctgaagg tggccatcaa cgggttcggc cgcacgggc gcaacttcct gcggtgctgg 300
cacgggctcg gcgacgcctc gcccctcgac gtcacgcca tcaacgacac cggcgggtgct 360
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<210> 17053
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-037-Q1-K1-C2

<400> 17053

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tctttacatt ctacgacaag ggtcaaacgg agtttcgtta atgagtcttc ttgcaatctt 180
ctgatgtaac acatgangaa tcttgtcaaa tctctatggt ctgctgtgct agaaggaaac 240
cacaggtatc cttgtctaca attatctgtg aaaataatag tcttgcacat acccttctag 300
attcgcgaca cagcaacatc cagttcaact ggagaactcg ggtaaataatc tgcacggtg 360
ttgcccaagg attagctttc ctccatggca gtgtcagccc tcacattgtt caccgtgaca 420
tcaaggcgag caatatactt cttgataagg aca 453

<210> 17054
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-C4

<400> 17054

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atcctcaccc tcaagactca tcgcctcaag ctgcgccagt tccagcagca gcttgagaag 180
gtaattgaag cagaaaagga agctgcacgg cagttggttc aacagaagaa gagagacaga 240

gctttgattg cactgaagaa gaagaaagct caggaagagc tgttgaaaca agttgacaca 300
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 gtatttgaaa gcctgaaggc tggaaactct gtccttaagt ctattcataa tgagatatac 420
 atggatgatg ttcaaaatc 439

<210> 17055
 <211> 73
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-C9

<400> 17055

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 cacactcatg aag 73

<210> 17056
 <211> 130
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-D12

<400> 17056

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 atctcatcct cactatatgc tgcaactagc atcatgctgc tcatcctgct tgcgcttctc 120
 tcctgtcatg 130

<210> 17057
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-D2

<400> 17057

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 gtgttccgat ccttgctgtc tcggctctct ctgctcctag tcctcatacc tctgtactct 180

ctcttgcttt gtcttctgct actatcacgt ctctctttca cactccggtc aatcttacia 240
tctctctcaa actgtccaaa aagaaagcga ccatatcccc catctcgatg atgcctattg 300
gtactccacg tgttccttac cgaacacctg ttgaaagaac ctgtcaatgg cttgacatat 360
ggaacgctct gtaccgtgag cggattatct tcattgggga caatatagat gaagaattca 420
gcaaccaaatt gttggcaagc attct 445

<210> 17058
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-E6

<400> 17058

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tctacgtcc agtacactcg ctggcaaaaag gggaaaggcc gcttcggcag ccatgggagg 180
tctgctccct tgaatctgcc tcttggtccc atggtctggc cttaccttgg ctagaccctc 240
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<210> 17059
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-F10

<400> 17059

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aggagctgcg ggggcccctg tcgttcagac tgtggtgctg aagggttcca tccactgcca 180
tggctgcaag aagaaggctc ggaagggtgct caggggcctc gaaggcgtgc aggacgtgac 240
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caagaggctg tacaagtccg gcaagaaggg agtgccctgg cagtgtcacc cgcccgccaa 360
gaacagcgag cccgcgccgg agggccccgcc ggctccgcag cctgccggcg actgctgcaa 420
ggatgctgct gctgctgctg c 441

<210> 17060
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-037-Q1-K1-F12
<400> 17060

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agctggtgga gacgtacgcg tgctcgccgg ccacggaacg cggccgtgga atcctcctgg 180
ccggggaccc caagacagac acgatcgctt actgcaccgg cgcagcggtt atcatccgcc 240
gcctcgatgc gcctctcgac gcttgggcct accccgacca cgcctacccc acgaccgtcg 300
cccgtttctc ccccaacggc gagtgggtcg cctccgccga cgcctcctgc tgcgtccgcg 360
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<210> 17061
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-037-Q1-K1-F5
<400> 17061

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gtagaatcta tatatcgtag gcaagtagtg gatcgaggca tctatctgca gtccctttct 180
tcttcttctt cttgattgat aggtgcccgg aagcttggtt tggtgggtgg cttttgtctc 240
tgtcgtctcg tctcgtctcg tcttccgccc ggccgtcacc acctgcaggc tatactagct 300
agctattaag tccggccaac caagcagctc gatcaggctg gtcgacggcg gggacagttc 360
ggagggagga ggctgccgga gaccgaatga cgcctacat caactcgcgg tcc 413

<210> 17062
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-F6

 <400> 17062

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 ggataaaaaca tatgctaaat tttaatcatt ttctatcgcg attttaatat cgcattctgtt 180
 tctgtctatt tagactccta aaattttcgc gaatttcgga acgcaattgt tctgaaagct 240
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<210> 17063
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-F7

 <400> 17063

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 ggataagggtg cctcgccgtt aaacagagtg gttgttcgcg ttcgtcccag cctctagtct 120
 ttcttttctt ccagagtgat ggccaaatgc tactcagatt ggccccgat tccgcctttc 180
 catccatcgc gaagaacgcc gccgcaatcc cagcctccc cgatcacgat caggcggcag 240
 ctgcgctcct tcgtgtcca ctgtccaga tctgcgctc cctcctcga gcccaagaac 300
 ctgcccgatg agttcgaggc cgtaccggcg actacgactc cgtcgctgcc ggacgccgcc 360
 ccgaagctgg ggatttctaa caagtt 386

<210> 17064
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-G2

 <400> 17064

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tctacttttc tctccgcct tccactgatg ctttccctg cctgccgtcg tgcacatca 120
tctccggcca gggccagggc atcccggtec ggcctcctcc actctgcgcc cccagactc 180
gtcgctgctg atctgctggc cgccatggcc accgtcatgg ccgcgggcgt ctcgtccttc 240
ccgtcctcct cggccgtcgt cgccaaggcg tcgcccggcg cccctgtgc cgcgccgcac 300
tttcgcccga gggccctacg gtccgtatc 330

<210> 17065
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-G5

<400> 17065

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cgaccaagtt cgcagctctt ccatgggggt tcggctcgtg gagcgtcatc tgcgcgtca 120
aggcctcgct ggatcgctc ggtgtctcgt cggttgagct ctaccaactc cattggccag 180
ggatatgggg caactaatac tacctggacg gccttgaga ctctgtggag caagggcttg 240
tgaaggccgt cggggctcga aactacagcg agaaacgtct tcgagactcg tacgagcgcc 300
tcatgaagag gggggctccg ctcgccttca accaggtgaa ctacagcctg at 352

<210> 17066
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H11

<400> 17066

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agagactcag agcagggcgc tcgtgagtcg gaggagaagc gcgaccacta ccatgggctt 120
tatctcgttc gtcggccggg ttctcttcgc ctccctcttc ctctctcgg cctaccaaga 180
gttcattgaa ttggaaatg actgtggacc tgcagcgaag accttgaagc caaagttcaa 240
tttgttcgtc aagctagtgt ccaagaatac tggactgggg ctgccgcata tggatataaa 300

aactgtcatt gcagctacca tgttttcttaa aggctttggt ggtcttctgt tcatagtcag 360
 cagctcattt ggagcattcc tcttgetcat ttacttggcg ttataaccc ctattgtgta 420
 tgacttctac taccat 436

<210> 17067
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H5

<400> 17067

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 ctgagtgtta aaactgtgag catatcaatg cccgtccttt aagcaatatg ggagctaatt 120
 gctgcattgc tgcaaaggag aggacacaac catgcattac tccattagaa gtatcagcgt 180
 acaggaatgt gagacattca ccatcatgga gctttcggtg ggacaatcgc acacatatag 240
 aagacataat ggaaatccct actctgttct ccaaccatag tagtggaagc attcggcctg 300
 atacaaagag tggttccatt gcccactg aagggttttc taatggaaat agccttgga 360
 ctagcccttc caatgtgtct cacggaacaa agtggcacia atctgacaaa aaaatggaag 420
 catctaaggt taaaaagg 438

<210> 17068
 <211> 145
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-038-Q1-K1-A10

<400> 17068

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 atgtttgact aataaaaaaa tttcataaat aaaaaaaaaa aaaaaaaatt taaaattcaa 120
 tttataaaaa taaaatatta taata 145

<210> 17069
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A2

<400> 17069

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gtgctaaatg tgaattcaat catacagttg ttttgtcaat taatcgttgt ggtaaaagtt 120
cggagccgta aatttataca ctgatgatct gcgtgtaata tggaatgaat gtggtaacat 180
cacctttcgt caaaatattt gtgcagaaca tagttaagca ctcgagattt tcaaatggcg 240
tcctcaacga gcatctcatc tacttggcga tgacaccaga ccagattctt ctatacatc 300
cttactatct gggtgaccac tt 322

<210> 17070

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B9

<400> 17070

ggtttggaat tccgggcggg acccacgcgt ccgatgcgat ccatggctct gcattctcca 60
caatccatgt gacgcccagag actgttgatc tattccagtt atgaggttat gggcttggat 120
gccactgctc tgtcttatgg tgaccttgtc aagagggtcc ttcgggtgctt tggcccctcg 180
gagttttccg ttgccgtgac catcttcggc gggcgtggcc atgccgggac atggggaaag 240
gcacttggtg cagagggtcta tgactgcac aacatgggtg agcaggagct gcctggaggc 300
gggctcctcg tgtaccagat cttctgtgct gctgaagact ctgttgctac ctgccecaaa 360
tctgtttgcc actgctttg 379

<210> 17071

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-C10

<400> 17071

tcccggtcg gaattcccg gtcgacgcac tcgtccgctt ctcagcacgt acctcgagtg 60
gtgtcacaca aaggccggtg tcagtgaccg cttcgttggg tcacaaaacc agcgatgcc 120

gaaggaagtt cctaaaactt gcacttggga accttgagtgaggaggatg tggactgccc accttggttg 180
gcgctaagaa agctctcgct gatgagcaag gcgtctcgct ctcgaggatg tcttattcga 240
ggttccttga gtatcttgac aaggatagag tgaagaaggt tgatttggtt gagaatggga 300
caattgctat tgtggaggcc atttctcctg agcttggtta cgcgtgcaa agagtccgtg 360
tgcagcttcc tgggtctaagc caggagcttc ttcagaaggt gagggagaag aacatcgatt 420
ttgctgctca cagcaaccag gaagact 447

<210> 17072
<211> 270
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-038-Q1-K1-C6
<400> 17072

aattcccgctc tcgaccact catccgcagc tcgcttcac taccacttcc ttctccacca 60
actactcatc ttccattaag ccggataact ttaaatttac gacgtcctcc accgccccgc 120
ccgccccttc ttcttccacc tccccttaca acgaataatt cctcctccgc caccttaaca 180
acccttttca actctcgcgt atccttaact taccactacc acccacacca catacccccg 240
gttacctaaa gatcacataa aaagcaccat 270

<210> 17073
<211> 312
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-038-Q1-K1-C7
<400> 17073

ggaattcccc gcggagcacg acgcacgcag agccgcagag atccgtcaca ctgcatgttt 60
tgaaaactga actgtaagat ggcattgagg tagctttccc gtgaggaaaa tgtgtacatg 120
gcgaagctcg ccgagcaggc agagaggtac gaggaatgg ttgagttcat ggagaaggta 180
gcgaaaactg ttgactcgga ggagctcact gtggaggagc gcaacctcct gtctgttgca 240
tacaagaacg tcattggagc ccgcctgccc tcattggcga tcattctctc catcgagcag 300

aangaggagg gt

312

<210> 17074

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D2

<400> 17074

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atgtcgccat agtaaagaac ccgacgcagc tcatccctgc caggtttatg atcaatgatc 120

ttggttcctg cttagagtgg aataaagcta tgcagaagat taccggtata aagaggggaag 180

atgcgataaa caaattgtta attggggagg tcttcacgct tcatgattat ggctgtaggg 240

tgaaagatca tgcaactcta acgaaactta gcatactgat gaatgcagtg atttctggtc 300

aggatcctga gaagctcttt tt 322

<210> 17075

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D4

<400> 17075

ttcccggctc gacgccacgc gtcgcgcgtc cttttacctt ctcccattca cgccccgtct 60

ctttcgtggc cttccttttc cggcggccac aagtggcgga gcggcggcgc ctttcaccag 120

gtcttcgctg ggcccttcac cggcgacgag catccaccag aaacgtggag ctgagagcat 180

tggtgcctct ttctcttttc accaaggatt ccggtgcctt gtttcacaag acaaaaaaag 240

tctcaagggc cttgattctt gtatgaactc aagatttatg gtggatcttg gagctgtggg 300

atgctaagcc tggctagct acc 323

<210> 17076

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D5

<400> 17076

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gcaacttaca acgcaacagc ggcgcggtca tcgagtcgac gtcgaccagc cactatatac 120
gcaagaaagc caagaaaaac acttctatcc ctcttctctc atatccaata accaaaggta 180
gctggctagc cgcgactcat tggctagacg attcaagcag cagctcatga tgggtggctcc 240
gatgatgatt gcgtcggccg ggctgtgcat gctggccggc gtggcgatgg ccaaccggtc 300
cctcgggaaa 310

<210> 17077

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D6

<400> 17077

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cgttcacccc agcggcgcca ggctccacg ggatgggtgt tcttgtggct actgccgctc 120
gggtggcccg ggggaagcac gccgcccggg cgcgcccgcc ggctgcgagg ggcagggccc 180
ccatccgctt cgccgcccag ccctagcaca aggcggccac ggtcaggttt gaaaaatata 240
gattgttatc atggatgaaa ccaataaggc atgacgtcag ggcccaaagt tcc 293

<210> 17078

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D7

<400> 17078

ggattcccgg gtcgacgcac gcgtccgctc aagctctagc cgaactccct cagccatcc 60
tctttcttgg tgttcatccc tgccgcagcc accacttggg cgctcctctc cctgcccctc 120
ccatggcggc tccccctgga tccctcctg cgcggaccct ctcccgtgga tggtgccgcc 180
ccttcttgca gcacgtcgtg ctccctcccc tggcgccctc gtccccaacg ccggaaatgc 240
cgctgctgct ccaccagccg ctactgctcc tgaacgccag tgccgaccac catctcccat 300

<210> 17079

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D8

<400> 17079

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ggcaccaatg gcttactacc aggaggtgga cgactgctcg gaggaggtga ggtcgggtggc 120
cccggccggc ttcggccgcc acggaggcgg cgtccagcag cacgtcgtca aggagaagtt 180
cgaggaggtc gacacggtct cacgcgccgg cgccaaccac caccaccacc accatggtca 240
ccacggcggc cacggcttcg tgggtgcgca gaccagggtc gaggaggaca tcaacacctg 300
caccggcgag gtccacgagc gcagggaga 329

<210> 17080

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-E1

<400> 17080

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atctctttcc atagccggct tcgagctcgg gctagtcgtt catggcgtgg acaccagacg 120
agctccctgg tgctcgcccc tctccagccg agctcctcct atctctcct cgcgctctcc 180
tctccctgcc atggacgccg gagttccgct gctcggccat ggccgctgtc gagcttctg 240
ctcgtgccta tctccctcca tggctgcgct tcatcaagct ctctgcgcgc cgtgaagccc 300
ctgcgcgtcg cggctctcca 320

<210> 17081

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-E10

<400> 17081

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agagtcgggg tctccgagca cacaatagct attctcgggtg aaaacagggtg ggaagaccca 120

accagactga cgcataacaa aaagacagcc atcaccggca cagttgcatc tactaagact 180

tgcattcttct gtcgaggcga acgccgcctc atgtgcttag aatgtgatgg aacagggtgag 240

ccgaacattg aaccgcagtt cttggagtggt gtcggtgaaa atactaagtg cccatactgt 300

gaaggaattg gttccatttt gtgtgatggt tgtgatggaa agaaagtaat ggcaagttaa 360

gtaaggctta tagcaagaat tccctgcctt gtctgtgttc ggt 403

<210> 17082

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-E11

<400> 17082

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cacgtccatc tccacatata cgactttata ctaccacata ggccctccta cccagttcta 120

ctgctgctac ttccaaccac ctccacccca cccgtacttc ctctctccct tegaccccta 180

tcct 184

<210> 17083

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-E12

<400> 17083

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tggctcttaat gacaaatttt gacttttcat cactaaagtc aatcatcccc tacgaaacgt 120

cataagtagg agaggcttat gacattttga tctattgtca caagggtattc gtcatagaag 180

gctatatgtg ttgtagttag agttttataca catgggttagg gtactcacta tcttcaaagc 240

cgggaggttg ctcaacatag acctcttctt tgattgggtcc attgaggaag gcacttttca 300

cgtccatttg ataaagctta aagccatggg aagtagcata ggccaataat atgcgaattg 360
 actcaagcct agctacgggt gcataggttt caccgaaatc caaacctttg acttgggagt 420
 atcctttggc caca 434

<210> 17084
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-038-Q1-K1-E2
 <400> 17084

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 ctccctgcga cttctccagg cccggggccg cgctgcggcc aagtgcgcag ccgtgggtgg 120
 ccggacatcc gcgcggcgag cgccacggcc actgttcgcc gtgcgcgcct cggctgctga 180
 cgccgccaac agggatgccg tgctcaaggc cttccgcgag aacagggctc tcaagataat 240
 tcccggtctt cagaactttg acaggatcag tgttgcatct gttgccacag ctgcagataa 300
 gggaggtgca acacatgtag ac 322

<210> 17085
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-038-Q1-K1-E4
 <400> 17085

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 gcaggaaggc ggtgatcgtg cgcttgttct aggagggcac ccgcgaccgc ccctacggcc 120
 actgcctcgt cgccggcctc gccaaagtacc ccaagaaggt ggtccgcagg gactcggcca 180
 agaagacggc gaagaagtcg cgcgtcaagt gcttcatcaa gtcgtcaac ttcaccacc 240
 tcatgcccac ccgctacacc ctgcagtcg acttcaagga cgtggccacc ggcgggccc 300
 acgcgctctc caccgcgac aagaa 325

<210> 17086
 <211> 298
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-038-Q1-K1-E5

<400> 17086

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atgacttggt gtccgccgcy cctcgccact cagaagcgag ggaagtggta gccgaggggg 180

gtggctgctg tctgtcactc attggaaagg gaggattgac tntngtgatg gacacgttcg 240

taatttcgaa ctcttggtg aagaaccttc gactccagcc gattatanna aatcttga 298

<210> 17087

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-E7

<400> 17087

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cagcggcgga cgagcacgag gaggagagcc tgagcgtgcy cgaggagctg aagaagcagc 120

tatggctggc tgggccccatg atcgccggcy cgctcctgca gaacgtgatc cagatgatct 180

ccgtcatgta cgtgggacac cttggagagc tgcccctcgc tggcgcatcc atggccaact 240

ccttcgccac cgtcaccggc ctcagcctgc tgctaggcat ggcaagcgtc ctagacacac 300

tgtcgggcca 310

<210> 17088

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-F10

<400> 17088

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acgacgacaa acatggggaa gccttgtaga gatcggagag tgggggtggat actccggcga 120

tcgtcgggat ctgagggcta ctccggaccg gctgatcgag gtgaaggcca cggcggacaa 180

cagcagctgc atccgctcca tctccttcat ctacatcgga gccgatggca aaccgtacga 240
 ggagggggcca tgggggtttcg gccatgctgg cacggagtac aagattgatc tgtgcagggtt 300
 cgacgagagc ttgacggaga tctccggggac cacggggccca gcctacaaca ttgacaatct 360
 ggtcaagtct ctcaaattcg tcaccaacaa acgcgcttac ggaccgtacg gcaggggacga 420
 gggcaccccg ttccgtgtc 439

<210> 17089
 <211> 322
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-038-Q1-K1-F3

<400> 17089

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 tgtgtgacac tggcaacctg agcgtgaatc ggcaggattt catcccgtcg gccaatgatt 120
 cggaggggtga tgcggccacg acacctgtct ctgccacaga gaaaccgtac atcactttgc 180
 tctaccgtcc tggccactac gatattctct acccaaagtg aattttgcgc atggttagtt 240
 tcacgacttc ggttgagaaa gcacactgcc cagaaaactc gtcatgtttc gcctgtgtgc 300
 tgccaaaggt ggcaaacttg ct 322

<210> 17090
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-F8

<400> 17090

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 ttcttgtatc cctgctagtg ggggccctct cccacagcca ccaagtctgc tctgtccaga 120
 gaatcaagtg ccagtgggtga ccatgctcac aattctttac ccaccatagc cagaacattc 180
 tagggagttg ctggcctata tgaagcttgt tccataatca tctcagaaca cgaagaagaa 240
 gtggaagtcc ctgaagagaa gacaacacca cctttggagt ctcaggcagg gtctcgtctc 300

tacttttagca tctgcggggcc tga

323

<210> 17091

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G10

<400> 17091

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cttttgcaaa gagggtaatc gagtgataag cgaactagat gtgaagggtta tctccaaggg 120

ctaagtacct tatgctctca acacagaatt tgttgtagtg tgaaaagcgg atgcctccct 180

cccttttctc ccactttgat gaatagtata agcacaggag atgagatgca acagttatcg 240

gagttatcgg tctacatggc cctgaccagt cgtatgtctc ggctgcctgg tgcagctatg 300

aaaacgtttt gcaatagctt ttttcggcag tcctcacatc atcacggttg tgtttccgct 360

tccatatctg aatggaatac atatacgtat g 391

<210> 17092

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G4

<400> 17092

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tctgacgctc gcgctcctcc tcgcgaccag gccgctctcc ttgggcggcg gcgcgcaccc 120

gggctactcc gacgccgacg agagcgcggtg cacggtggac gcgggcgcgg agctgctgcg 180

gcggctggag gagcgcgggc ccggcgggcg cagcatcatc gacatcacgc acgcggtcgt 240

gccggacctg ccggcggttcg ccacgggggc ggtcgcgggg cccatgctgc gcctcagggg 300

g 301

<210> 17093

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G9

<400> 17093

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tactgcttgc agtt 74

<210> 17094

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H7

<400> 17094

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aaacatacaa caaaactaaa ggcagaattt atacaaacac caagccaccc aacaaccact 120

ctcctcacac 130

<210> 17095

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-A9

<400> 17095

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atgcttctag aagttctcat gatgcagtgg aggtgtctga tgaaggcaag actggcaatg 120

aaacattgct ttctgccgag ggaggggaga ggttgggacc atctttaaat ggcaccagcg 180

agggaattaa agggcgcccta aataatgatg gttctgtgcc ccacacttca aaagttgaaa 240

gagaagaggg tgaattgtcg cctaacggag attttgaaga ggaccatttt gttcctttcg 300

aagatggaac atctaaagga aaggaagatt ctacaagcag accattccat ggtaggcctg 360

gggaagtggc accctcttct gccgaggcag ctggtgagaa tgattc 406

<210> 17096

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-B12

<400> 17096

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gcaccggaaa tgccacctgc agcacttttc ttccaatcat agttcctcaa attccagcac 120
ctttggcacc acagccgtct caatctcaac cttcagagcc agcaaccgca gtgcaagcca 180
ccagagtcag cagcgttgca gtaactgaga catccacaac cagcagaatt gaggtctgca 240
tggtggggcaa atgcaagaag tcaggtctct ttgctctcct gcaggagttc gagaaggctg 300
tggtgaccgg ttggtcgggc gtcgggtgca agtgctctgg gaagtgtgct ctaggtccca 360
acgtgaggc 369

<210> 17097

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-B5

<400> 17097

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agcctactat ccagcactgc cggccatcat ttctctccgt gtgcaaactg caaagcaagc 120
aatggacatg ggctttctaca agctctccag caggggctgc ggcataagc acaaggcggc 180
ggcgatgccc ttctacccca ggaaaccggc tcatgtggct cccgccgcgc cgtctgcgca 240
tcatgccgtc agcaaggcga aacagccctc atcgaccacc atgtggtcga ttccggcacc 300
gccatcgtca accgtgggtcg ccatggatgt tgctggaaac tgcattgg 347

<210> 17098

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-B6

<400> 17098

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caaattctctt gcttaagacg catttattaa acgatcacag ctcaatcaat ataaccatcc 120

taacattaaa cagctcataa tatacattac catccatcac aaactacaca accttattga 180
 acaactcata gactcacaac aattcaacca acaagtcttg gtcacacaaa cttccacctc 240
 atcactgaaa gctcttcaca tcaatacaac atagctatat tgatgaatca tacgttttca 300
 tctaaaattg tatattcttg ccctatatca ataattacct taacattata cactgctaata 360
 attctatttt atgatcacca tactaatcta attcacctta tccctc 406

<210> 17099
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-B8

<400> 17099

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 ctatcatatg cctatcatat cggtgaagat ctcataggta tacctacaac actggaaagc 180
 tttcatccta tgtatcatat aaaaaaattc tagctctctt atcccaaact acctgtccat 240
 ctaaagtatt gctcaatata tttcaatact tctccaaaat gttactatat c 291

<210> 17100
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-B9

<400> 17100

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 gtgctgggag cgtgcctgga ccaggccccc gagcgccgcc gcatccgcga ggctttcaag 180
 gacgttcagc tcagcatcga ccattgcctc ttcaaggac aatatagtgg catcagaaca 240
 aaggagtcac gtgagcataa ctctaggggt gtggagattt tctcaaatg ctggtttccg 300
 gaaaatcgtc caatgagagc aattgtttgt ctttgccatg gttattgaga cacatgtacc 360
 ttttttc 367

<210> 17101
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-C11

 <400> 17101

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 aggaggaaga agagcagggt cggagaatcc tgctgcgcg cgttacgaca agcatatatg 120
 ggggagatca ccaatgtcat ggagtaccag gccatcgca atcagaagct tccgaagatg 180
 gcctacgact actactcgtc cggctcctag gacgagtga ctctgcagga gaacaggagg 240
 gccttctcca ggatcttggt ccgtccgcgc atactgatcg acgtgtccaa gatcgacatg 300
 accaccaccg tgctgggggt caagatctcc atgcccata tgggtctccc cactgctatt 360
 cataaaatgg ctcacccaaa tttggagaac gcc 393

<210> 17102
 <211> 74
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-C5

 <400> 17102

 ttcccgtcgc ctccacgctt cctatgtcat accatggggg gtcgttcgat ttctcgcaga 60
 aacatcctga cctt 74

<210> 17103
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-C8

 <400> 17103

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 ggttcgaaat tcaattcggg accttaaact tcgttggtgt gctctccgtc ccacagttga 180

acttgccccc atgagaagcc taacaagttt acatttgtcc tttgtgagca ttaaattggga 240
 tgggttaaag cgcctccttt ccaactccct tgctctggat gaattatagc tagtatgttg 300
 tgactagatc gtttgccctca atattccttc ttccctgcat ctgtttatca tccttaatat 360
 tttttgattc tcgttctcta aatttctata ttgctattct ttaaattcctt tattttttttt 420
 ttttttcttt c 431

<210> 17104
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-C9

<400> 17104

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 atactcgaga taatgctacc tctacagtcg gatcacaaaa ccacgtggta ccaacctatc 120
 actcctacta catccaattc tgaacattcc atatagactg ctcatcatct ttactcctca 180
 gatatctcta cctgatctac aagtcttctc tctctctaga atctctcatt ccagtttcca 240
 ccaacatctt aacaaatata gaatatagaa tctcaatata tatgaaattc tgccttttaa 300
 tatcatcaa 309

<210> 17105
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D1

<400> 17105

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 gaagaagaga gagaagacgt ctctcggcgg tctgcatccc cgttccgcaa cctctcgtct 120
 gctgcctgcc tgcttgctg cctgcaaaaa ggagtttgtc atggcgtcta agcgcatacct 180
 caaggagctg aatgacctgc ataaagacct catcacatca tgcagtgcaa gtccctgctgg 240
 tgaggacatg tttcattggc aagcaacaat tatgggacca cctgacagtc cctatgctgg 300
 tgggtgttctc ttagtgaaca ttcatttccc gccagattac cccttcaaac ctacaaagggt 360

ttcttttcaag acaaaggtct tccatcctaa tatcaacagc aatggaagta tatgcctga 420
cattctcaaa gagcaatgga gccctgctt 449

<210> 17106
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D10

<400> 17106

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ggctttgaag actccgaccg atgtccctat atctactacg tccctaccta atccttctct 120
ctataaaaact cgagctcgtg cacatggagc tgattcttgg tcgccccaac ctctccatga 180
tctctccctc tctcccgccg tagataatct ctgtctattc tc 222

<210> 17107
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D11

<400> 17107

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cctcccctgc tcgacaacta gttcgaccgc cgccgcccc aagcctgctgg ccaggctctc 120
ggcggaccct ttgccgtcga cgggcatcca ccacaccagg gttttgcaca ttaatgaaga 180
cttaaaagtt ccagaacaaa gcactaaggg tgctcgaagg aaaaatgctt taggttagat 240
caaaccatgg tttttaaagc ggtaaggcgg tccaaggcgt tggagcaccg tctggacgcc 300
taggcgaggt aggtgggcaa ggcgcctagg cgtagacca ccgcccagac tcttaggcta 360
ctccttaaga acagtggatc aaactgtaga tcttgccact gccttcaagc atcctat 417

<210> 17108
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D12

<400> 17108

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ctccctctgc accccaacgg ccgcgcacgt cctccaccgc catgattggg attaccaacc 120

tactttgccg ccacgaccgg ctctctctcc ttccccgggc tacgtcgtcg gccgcccggt 180

cctgtactct gcttctctct cgatgcctcc tccattcttc ttgctgctcc ccttctctct 240

ccgtctctcc gtgccgttcc cgggtccgac caacagcacc actgaagctc atccctgcct 300

cctacacctg cttcatgggt ccagccaaca atgatgccac cactcttaaa ctatcatcgt 360

ctgccgacct tctccgctc cttatcgctc ccagctccac cgctgtcacc ggacactcct 420

tcagtgtttt ca 432

<210> 17109

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D5

<400> 17109

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aacggcttac taccatcatg taaagctact tctcagagga ggtgaggtcc atgtccccgg 120

ccgtcttcag ccgccacgca cgcctctctc accagcactt cttcaaggag aagttctagg 180

acctctacac ggtctcactc tccgtctcca accaccacca ccaccaccat gctcaccacg 240

actgccactg ctctctcatg ctgcagacca ggatcgagaa gtacatcaac accttcaccg 300

tcaaggcca ctagcgcacg tagagcttcc tcaccagttc taac 344

<210> 17110

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D8

<400> 17110

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ttctgtcct gttcaccaa cgctcatcaa ttgcctccg tcgtcgagc agcagcagca 180
gatcgccaa gcaggagga cagctcctgc cgtcttcgcc cccggctctg cccatcatcg 240
gccaccttca cctcgtcagc gacctccgc acgtctccct ccgtgacctc gccgccaagc 300
atgggtggga cgactgcctg atgtgtctcc gtcttggcgc 340

<210> 17111
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D9

<400> 17111

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cctttcgtcg gcaccaatgg cttactaccg taggttgact actgctcgga ggaggtagg 120
tcggtgtccc cggccggctt ctgccgccac ggaggcggcg tccagcagca cttcttcaag 180
gagaagtctg aggagggtcaa cacgggtctaa cgcgccggcg ccaaccacca ccaccaccac 240
catggtcacc acggcgccca cggtctcttg gtgcgcgaga ccagggtcaa ggaggacatc 300
aacacctgca ccggctaggt ccactagcgc aggtagagct tcctcgccag ggctaactga 360
gccgcccggc ggccggcatc cactcccggt cgtgcctgcc tgctttcctt atgtatgtct 420
ggggttgact ggt 433

<210> 17112
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-E1

<400> 17112

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tccttccatc catccatggc atgtgcatg acctccaga gctgccccat tgccagaaga 120
gcaaagatca acaccaggtc caggggcagc agcagtagcg tggcgaagg gtcaccacca 180
ccagccttcc agttccagtg cagggcgctg actttcgcg cgacaccag cctccggctc 240
gagctggacg agaaccccgga ggcgatcatc tcgggggcgt ggcccgga ctgctccctc 300

ctcagctact acgacctccg cgcctacctc gagtcgcagg agacggctgc ccatgcagac 360
 tgtcagcatc tcggcgtggc gtcctgagc gagaccatgt ccacaccgt gctggtggcc 420
 acagcatacc agaccct 437

<210> 17113
 <211> 55
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-E11

<400> 17113

ggaattcccg ggtgcgacgc cactcgccg gcagaccgt ctcagcatct ttcac 55

<210> 17114
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-E5

<400> 17114

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 ccaaccaggg tggtcaaggg tgcccatata taatgggtcc tcttggtgga acaccacagg 120
 aactggggca tcaagtgact cttatccgcc aagttgctga gaaagtgttc gccaatgtgg 180
 gcaagactat cgggtacaaa gttggaacaa tgattgagat ccccagggca gctctggtgg 240
 ctgatgagat agcttatcat gctgaattct tcttcttctg aacgaacgac ctgactcaga 300
 tgacctttgg gttcatcag 319

<210> 17115
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F1

<400> 17115

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 agagagaggg tagttgatgt taagcgtgtt atgtgactgc ctttctttt cgctttgctt 120

cctggatcca actgccgcct tctcatcctg tcttcgttga ttcgctgttc ttccatcgga 180
 tgcctttatc tgcctagatc ggatcatgag caaatctcat tgtgtaaatc ctgataggag 240
 gaagagaacg accatagttg atcgataccg tccctgtatt gcttgtgcct gtctcgtacg 300
 gctcttctaa caac 314

<210> 17116
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F5

<400> 17116

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 tgagcccctt cgcgttgccg gttcacatgt ctctaagcat catggcccta accttctagt 180
 gcgttgatca cgtacttgaa gatagggtgca tgctcatctt aaaacacgac gacgtactca 240
 aagtcgttcc agtgtctaca acactagcta tggagtctta cgcttcgtct agtgtctact 300
 ttatcatctg cgggcctgag actaactcat ctataaaca agatgaatca tcaagaatcc 360
 cttacggggag taggagagtt tctactagat tttgggtgtt cagtggctct g 411

<210> 17117
 <211> 228
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F7

<400> 17117

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 aatcctcagg atgaatctga tgaactaatc taaagatgga tagactaaac aagtatcaga 120
 acaaggatga tcgtcaagtg gacttcacct aacatcacta acctagtgtt attcatgcaa 180
 acccattgca tttatcatct ccttgtgttt taaaaatctt tttcactt 228

<210> 17118
 <211> 184
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-F8
 <400> 17118
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 acttaggaaa gatcacagac tttttctaca gaatagaggg actaaacaaa tacaataaca 120
 atgatcatca taaagccaac aatccttacc atcactaaca tagctttaat cttccaaaca 180
 tttt 184

<210> 17119
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F9
 <400> 17119
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 tagatgggcy cctacacccc gacgactcag acgttcactc attgcggctg gtactcaacc 120
 gattctccga cctcaccaac tactagtacc gcgccaacta cctcggcgctc aagagcaggc 180
 cacagaggca gagtacgctc catgacatgt acctaccccg caacaactag cacatgccac 240
 aatccgctga cttgcgggtcc aagggctcct tccacgaaat ccaagaccaa tccatccacg 300
 ttagacgcta gcctgactga actatagcgg accacgaacg catcactaca acatggacta 360
 tcgaccaaact ctccctaaact catcaccaac ttactcac 398

<210> 17120
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-G1
 <400> 17120
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 gagactttcg ccaagaacct ttatcgtttt gtcatccact ctcgctgggc catgctgttc 120
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ctatcttttta tgtctcattt ctcttatttt tcatcttttt ttttcctttt tcttctattt 240
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tttcttctta cttttttatt ttttttttct tttgttttat ttattttttt ttttattcta 360
tattttatct ttttttcttt atcattatta ttctattttt tttattcttt ttactttata 420
ttttttttat attttattta atttttt 447

<210> 17121
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-G12

<400> 17121

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gtcttgactt ccaattcttc aaacttatct tgaccattt acatatacaa taggatgttg 120
gatactcaat cgaacatact gaccatgga catctaatta ccagctgcta aatattcagc 180
atacttcaaa caacttactc tacatacgct ccatcatctt catctacatc ttatcctatt 240
acaaac 246

<210> 17122
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-G6

<400> 17122

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ataggattca aataatcaaa taaagtaaag gtttgctggt aataacctta tttatgacaa 120
gtttcaaatt ggtaaagtat acccctagga taaagaagaa gaaggggctg agaaaaactcg 180
caagaaaagt tccaacctat cgtctactta aattcgaacg ggttttcaaa gcacaaaatc 240
tcatacatat gtctgttttc aaagcacaaa gagttctaga tgagattcgc tggcgttact 300
actaggaaaac cgttatgata ctgaatctta ttccttatcg tgcattgtat tccatcttaa 360
agttggtata ttctgtttca tctaattcat cttattat 398

<210> 17123
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-G7

 <400> 17123

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 ccacctcacc tgcacccctag ctgcgaactct ttgccgtgcc catcgacatc tatcgcatg 120
 ctgcaccccg atggctaccc tgcctccaa gaattgccta tgctcgtgca gctattcgtt 180
 cgatgacccc gatccgacg agtactctac ttcaaccgcc tctgctacca caaggtctca 240
 tacatatgtc tgttttcaaa gcacattata tt 272

<210> 17124
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-G8

 <400> 17124

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 cctccctct ccttctgtcg ttattctgc acctccgac gacatctatc acattgctgc 120
 tccccgatta ctacactctc ctccaagaat tgcctctgct cattcagctc ttctttcgat 180
 taccc 185

<210> 17125
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-039-Q1-K1-G9

 <400> 17125

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 gaataatccc accctttgtn cgtcaaactc caaagacacg attgtagttg gattaattcc 120
 caccacaaa cccccacca caagaacttg ttcgatcgaa ttcttttca actacccgcc 180

tcgttaaccc aaggaaggag gcaaagcaaa ggcttctcgc aagggttccc gtgagcggct 240
tctgcggctg tctccatgaa cagcatcaag catgctctga tttacagctt cgtggccaag 300
ggctccgtcg tgctgtctga tcacacggcc ttctccggca acttcagcac cgttgccgtc 360
cagtgcctcc agaatcttcc ccccaacagc accagatcca cctactcctg tgacggccac 420
accttc 426

<210> 17126
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H1

<400> 17126

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tgcccattgg tgttccaaaa gtaccttacc gcattccgga gatgaataat caacttcgat 180
tgacttatac aatgttatct atctagaaat gacacttttt ttaggtcaag agattccctt 240
ctagatcact actcatatta cacgtctgat actatatctc aatacacaag atggacatac 300
ccacatgaat ttgtacatta actcccctaa cgggttgcta atctcaagta tcacacttat 360
agatacgatt catacgtcta cacttgatat atattca 397

<210> 17127
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-039-Q1-K1-H11

<400> 17127

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tccaaaggaa accaaaatat ctgctagcgt gctgatggaa agaattcaaa gaggggctct 120
gctagctatg gtgctcatga gagacaagta tgggttcaga agtcaagttc aggctcgtga 180
gtttgtccat tgatgatact ccataaaaa acaggtattg aagtcgtgga gaagtcttgg 240

attctgcagc gcattcttct ttgttagctg ttgatcctgt gaagtatggg aacgaaatgt 300
ccaatgggtca aatgctacca tgaagtgcaa tctcagatct gtcagtcgaa gtctcagctg 360
aaaagagggc tcggctgatt tgattcacag aaatagtga gtaacataac ccggcatgta 420
ngtagctctn cgacaacttt 440

<210> 17128
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H5

<400> 17128

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ctaacaactt cgactagctc tacatgtact gctactatct tgctgaaact gtcgatttaa 180
tgagcttacc tgtaatgttc atcgcaacct agtctaaatc aacaactgaa agcttatata 240
gtgctgcctt gtctctggga attgctaacc aactcactaa catactctctg tatgttttag 300
aggatgctag aagaggaagg atatatttac cacattatga tcttgcacaa tcatttctct 360
ctgatgagga catcttcaaa agtttcatca cgaacctttt taaaaaattt aattataaat 420
catatcaata aatccaggat attttttttg 449

<210> 17129
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H9

<400> 17129

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gatgactctg ggtagctccg ggcgcggatc gagcgtcgtc gttccccgaa acttcaggct 180
attagaggag ctcgagcgtg gagagaaggg cattgggtgat ggaacagtga gctatggaat 240
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tactgtacat gagggtcgca tctaccagct gaagttgttt tgtgacaagg actatccgga 360
gaagccacca tctgtcagat tccactcaag aatcaacatg acatgcgta atcacgagac 420
aggaatgggt gatcc 435

<210> 17130
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-A4

<400> 17130

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ccccgcccct cgccggctcg tggggaaagg agggccacat catggctctgc aagatcgccg 180
agaagtacct gtcggagaaa gctgcggctg cggttaatgc gttgctgcct tagtctg 237

<210> 17131
<211> 134
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-B7

<400> 17131

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tgtgagatta ggct 134

<210> 17132
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-C1

<400> 17132

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gactgtgacg actactaacg ctggcgctcc tgtgtggaac gacaacgagg ctctgactgt 180
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<210> 17133
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-040-Q1-K1-D2
 <400> 17133

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 ttttattttt ttttcttatt ttttttattt tttttccttt ttattttttt ttttttattt 180
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<210> 17134
 <211> 495
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-040-Q1-K1-E6
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 tggccgttcg gctagggtttt tttttttttt atattctttt ttttttatgt tgatttcttt 180
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taatatTTTT tttcttttta tattttattt attttatata ttttttttta ttttatattt 300
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<210> 17135
 <211> 478
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-G6

<400> 17135

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 ctctgtcca ggggtctcaag tccaccttca gccttcccat ctcccgccgc tccttcagaa 180
 tcctttgctt cttcttcate tgcataTTTT atccttttca ttcatttttt ttcttttttt 240
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 ttttatttat tttatttatt ttatttttgt tgtgatttta tttatttttt tattttatta 360
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<210> 17136
 <211> 185
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-A8

<400> 17136

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 accatcacgg ttaactacgt caataacatc acatgaatat tttattcgca tctggtaaaa 180
 gccaa 185

<210>	17137
<211>	295
<212>	DNA
<213>	Zea mays

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<223>      unsure at all n locations
<223>      Clone ID: LIB3060-041-Q1-K1-B12
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cagatgacac	gccaagagg	ctgacctacg	acgagatcca	gagcaaaacg	aacatggaag	180
tgaacgtcac	aatcacgtgt	aaccagtgcc	cgaccatata	caactgagtg	cactcagtgc	240
ctgtcaagga	cctcaagtac	catatgaaca	acatgcacct	gtaccccaac	tcctt	295

<223> Clone ID: LIB3060-041-Q1-K1-B7

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tgcggtcgtc	gtctttcttat	ataagacgcc	aacgacgcat	gtcctcggag	cctgccgagg	180
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gacgaccggc	gacgaagcta	gatgcgcgac	tgcgcgaccg	agccaccagc	aggctttcca	360
gctccagcag	gcctcgtgtg	tgggcg				386

<223> Clone ID: LIB3060-041-Q1-K1-C10

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tcgaggggtct caaatctttg gtagcaaatg atcatgaaga gaaagacatg catgagatgg 240
cagaagagga gcttcttgtg gctgtcgagg aggagaaacg attgcagcat gaactgttta 300
gatcgctgct tccaaaggat gaagcagatg aaaaggattg catattggag gtgcgggcag 360
gaactggagg agaagaggct tctttgtttg caatggatat attaagaatg tacgagaaat 420
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<210> 17140
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<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-041-Q1-K1-C3
<400> 17140

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cggttccacg gcctccgggg ctacgccgcg cccagggtccg cgggtggcagc gctgccgtcc 180
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<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-041-Q1-K1-C7
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gaggtggact actgctcgga ggaggtgagg tcggtggccc cggccggctt cggccgccac 180
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cgcgccggcg ccaaccacca ccaccaccat ggtcaccacg gcggccacgg cttcgtggtg 300
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<211> 391
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-041-Q1-K1-D2
<400> 17142

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gtgtccgacc gtcgtcatgg atcttgggaa g 391

<210> 17143
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-041-Q1-K1-D7
<400> 17143

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<210> 17144
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-E1

<400> 17144

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 cctaccacct atgtggaggt cctaagtact cgcatacgcc acttacgagc ctgccaatg 240
 gaaccgaagg ttggaggtga atacaatgcg ccatctcatg acgcagactt tgtcttcttt 300
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<210> 17145
 <211> 108
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-041-Q1-K1-E10

<400> 17145

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<210> 17146
 <211> 397
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-041-Q1-K1-E11

<400> 17146

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gaggccgtgg agtcgcacgg cggcgccggc cgccggacgc ccaagaggga tcgcggcatc 240

tcctgggcct gcgtcttcat cctggcgagt aactgcttcc agttcatcgc ctacttcgcc 300

gngtcgacga acctggtgaa ctacctcaag gaccgcctgc accagggcag caaagccccc 360

ccgaacggcg tcaccaactg gatgggcact agcgcca 397

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<212> DNA

<213> Zea mays

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<400> 17147

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agaaagatga tgtacgggac gatctgctcg attcccacct ccggctcttc taagctcgcg 180

tagtaattct tcttgctgcc aaatttggtg aagtacgtct cgtagcctgt gcttttgggc 240

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gctttcttgc tgatctcact attcgggtgg tttttaagtt tgctatacat gctcattgct 360

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<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-G1

<400> 17148

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accacaagaa cttcgtcaac ctgctcggct tctgcgagga ggaagaaccg ttcaccatga 360
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<210> 17149
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-G10

<400> 17149

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cgcaacaatc cattctcatc catggcgaag ctcatgaaca agctggtcga ttcgttcgag 180
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<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-G11

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 ccgggacccc ttggcccttg aagtcattgg cattaaccac ccccgagcc ttaagcaagc 360
 cgtccaactg gttaagttcc aattcaagct tggcattttt 400

<210> 17151
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-G6

<400> 17151

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 gctagcactg gtgcaatgcc cagtgatgtt caaatatacc ttaggggcac agaggaccag 360
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<210> 17152
 <211> 358
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-041-Q1-K1-G8

<400> 17152

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<210> 17153
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H2

<400> 17153

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gaggcaagtc ttggcacaag cgggcctaac acggtagata ggggggagtt gagagaatac 240
gcgcacgaga cagagaatcc ccacacgcac atgctccttg ttggtacctt gtaacaccca 300
tcggtgaggg agatttacgt taaaaacat 330

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<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H5

<400> 17154

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cgactcga gccaatatcc ccgcatttat tgctacacca ttgctcattc tatatcctac 180
tcacttttta cttattatcc atgtataaac agcccagtct aaaccattca ttacccatcc 240
aa 242

<210> 17155
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H6

<400> 17155

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<210> 17156

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H8

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 aacatggcgc gttgggtggtg tacttgctgt ttcgcgtgct tttggtgaca aactcttaaa 300
 gcaatatgtg gttgtggatc cggagatccg agaggaagtt gttgatgaca cactcgagtt 360
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<210> 17157

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A11

<400> 17157

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<210> 17158

<211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-A9

 <400> 17158

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 ttgcgccacg ccgccccgcc gcccgccgtt cgcctcatca tggccgcctc gtcgaccgcc 180
 acctccgtcc acgacttcat cgtcaaggat gcgagcggca aagacgttga cctcagcacc 240
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 aactacactg agctggccca gctctacgag aagtacaatg accaaagctt tgaaatcctg 360
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<210> 17159
 <211> 101
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-B4

 <400> 17159

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<210> 17160
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-B6

 <400> 17160

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 gcatcgacat ggaggaggga acccttgaga tcggcatgga gtacaggact gtatctgggtg 180
 ttgctgggcc tctggtcata ttggataaag taaagggcc aaagtaccaa gaaattgtaa 240

acatccgact tggagatggc accaatcgcc gtggtcaagt cctggaagtt gatg

294

<210> 17161
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-B8

<400> 17161

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cgctcgatac gctttgcgca ttagccttaa ctgtggttgg ggggcaaaga ttcctcgaga 120
cttcgaagat tatgccagct ggtgtccttg ctggcctcag tgctgtgatg tccgcgtttt 180
atctgttcaa aattgcaagc ggcggaacc acatcccacc aaagaaagag taaactggac 240
tctaacttgt aaagtatgtt cgattgaact cggaagacta ctagccactg cgta 295

<210> 17162
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-B9

<400> 17162

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acgttccatt ttttaaggag ggtttttact taagttgggt gatattaatc taatatgccc 120
attggtgttc caaaagtacc ttaccggatt cccggagatg aagaagcgac ttgggttgac 180
ttatacaatg ttatgtatcg agaaaggaca ctttttttag gtcaagagat tcgttgcgag 240
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atTTTTTgt ttataaactc ccctggcggg tggctaactc caggaatggc gatttttgat 360
acgatgcaaa cgggtgacacc tgatatatat acaatatgcc tcggaatagc cgcg 414

<210> 17163
<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-042-Q1-K1-C12

<400> 17163

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tcagcctgcg tccgatggcc tcgtcgacgg ctccaggcccc cgcgacggcg ccgccgggtc 180

tgaaggaggg catcgcgggg ctgtacgacg agtcgtcggg gctgtgggag aacatctggg 240

gcgaccacat gcaccacggc ttctacgact cgagcgaggc cgnctccatg gccgatcacc 300

gncgcgcca gatccgcatg atcg 324

<210> 17164

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D1

<400> 17164

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ggaggaatgg cggacgcagc cagaggccgg ggggtcttcga ctctcccggt ggctaactg 120

cacgcgcttg cagagtcttg caacgacaac ggagccgatg cgccggtgcc cgggaggtac 180

ctcatcaagg atcctagcgc cgaggagggtc gtagccgccg gcgacagcgc ctgcacgatt 240

ccggtcatcg atttccgcaa gctgctcgat ccgggggtcgt acgagg 286

<210> 17165

<211> 332

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-042-Q1-K1-D10

<400> 17165

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cagcgcacgt tcgtctctcat ggtccgcctc catcgccgtc tcccgcattc cgccagcccc 180

tggcctcgcg ctccaccac tagtgaatcc tccgcctcc ggcaaccgcc agagcccgg 240

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gtcgtggaag cagcgcacga acatgtacat gc 332

<210> 17166
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D3

<400> 17166

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taacgattat aaatagactt actacaccct ggactacgaa accaaggata ctgatatctc 180
ggcagcattc cgagtaactc ctaatctcgg agttccgact gaagaagcag gagctgcagt 240
aactgcggaa tcttatactg gtacatggac aactgcttgg actgatggac ttaccagt 298

<210> 17167
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D8

<400> 17167

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gcctgggcgt aattatggat tcttttgagg gctctgatca tataactcaa agaaagggtg 180
ttcctgcaaa acatattgca ttggttgatg gaaagaatga gcctgctgta gaggggttgc 240
ctaattggtt gctgaaagaa tgc 263

<210> 17168
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E7

<400> 17168

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gaccatgata gctttaacaa tgtcaagcac tggctgggtg aaattgatag ctatgccagt 120
ggaaatgtaa acaagcttta ggcgagaaac aagtgttaacc tgactgacaa caggaatccc 180
atcttacgag gcatggcaag aagcctagga gatgacatcc gaataccatt acttgataact 240
actgccaagg atgctgcaca cgcgcaaaaa gcatttataa acatcctacg gcatataaat 300
aa 302

<210> 17169
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E8

<400> 17169

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cctgagcgtg gcggatggcg gcctcggcgg cgaggcgctc tacttcgagg tcatectgtg 180
gctgtccgtc atgtcgtgga tcattcttcac ctgggtcggc gacggcggcg aggacgggag 240
gcggcggagg aagcgccggg gcagccgagg cagcccggtg ttcgtcg 287

<210> 17170
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F12

<400> 17170

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gcttggcttc atggtgcaag catccgtaac tcatgccggc cccatcgaca atctcttgac 120
acacctttcg gaccggttca aaaaaaatat cattcacaca ttctcctctt cctaagtact 180
cgtcccaatg cccggatgct atggcacaaa aaggtcacia tgtttttgaa cacaacagaa 240
caacatgatt attgatttac gtccttctcc ccaccgaata ggggaaggaa ggtagggaa 300
gcgttcaatc aattcaatga gatagtgtaa tctatagcaa actcag 346

<210> 17171
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-G1

 <400> 17171

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 caggcagcca cgcctcgccc gttctcggat ccgctggaaa acggtcaaag ccaaaccagc 120
 caaatcgcgc gcggcgggcg cgggcgacgag aacgagacgg acgcgcgcgc gctagctgaa 180
 tcaggtcagg aaggaggaga gccgccggcg agcacagcag caatgcctta ctgcgagggtg 240
 ggcaggtagc cggaacggcg caagtgggag ggcggtccgcg tctactaccg ccgct 295

<210> 17172
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-G9

 <400> 17172

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 gttgctcctg cagtgtgct gtgctggcat gcccagaat tcatgttcac caagttgtgg 180
 tcgagttcca tatgcctacc tacataatca gtgatgcctg cccatatata tacaaccctt 240
 tggttgggtt cagtgaaggt ttctccctg ctcacgaatt ctgtccaaag ataactgaaa 300
 ggtgttgtgg cgcagtgtgt cctgctagta ttaatcttct cccaggtccc tagatcgatt 360
 tgcttaagct ggtatgtgcc accccctgtg ctgggtg 396

<210> 17173
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-H2

 <400> 17173

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 ttcttgaaga acggtgatgc tgggtgtggg aagatgattc ccaccaagcc catggtggtg 120
 gagacattct cgcagtatcc tcccctgggt aggtttgctg tccgtgacat gagacagacg 180
 gttgctgttg gagtcatcaa gagtgtggag aagaaggacc cgaccggtgc caaggtgacc 240
 aaggctgctg ccaagaagaa atgatgagac ctgtcgttga tgcagc 286

<210> 17174
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-A10

<400> 17174

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 ctgctgcgtc tgggtggtggt gaaggggaga aattcgtgag atctgttccg gatcaggcgt 180
 gcgagctcgg gaatcagggg tttcacacat agcttcgtcg atttgaattt gatgtactaa 240
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 cttggctaca gcattg 316

<210> 17175
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-A11

<400> 17175

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 ttttgttggg ttgtcgaatt ataaattgag cccggccggc tgactaccat gaagccgcca 240
 tcaactggtgc actgcttcaa gctgctgggc ctgctggcgc tcgccaggct gaccatgcac 300
 gtccccgacg aggacatgct atcgcccctc ggcgcgctgc gcctcgacgg tcatttcagc 360

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409

<210> 17176
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-A2

<400> 17176

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ttggtcaagg tactgctgca ggacaagctg tagaaggtat tgcgagacag ccagaagcag 180
aaggtaaaat aagagggtact ttattgctta gtctagcttt tatggaagct ttaacaattt 240
atggactggt tgtggcacta gcgcttttat ttgcgaaccc ttttgtttaa tcctaaaaaa 300
gaaaatgagt ccttttagatt agatactttt ttcttttttt agtacattgg catttgctta 360
tgtaattcta agtatatcaa tactttactt tactcctatt tattatatta tttctttttt 420
atattattcc ggaaattttg tatttatcgg gacagacaat accctaggaa cccca 475

<210> 17177
<211> 482
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-A3

<400> 17177

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ccacatgaca gcaacatggc tgaggaggag gccaaagagg tggagggtga ggtcaccaag 120
gagcccagag cggcggcgaa ggaggacgta gccgatgaca aggccgtcat ccccgcgacc 180
gacccgacgc cgccgcccgc gccggccgac gactccaagg ccctggccat cgtcgagaaa 240
gttgcatgat aacctgctcc cgagaagcct gcccctgcga agcaagggg ctccaatgac 300
agggatctcg ctcttgcaag ggtggaaaca gagaagagga actctttgat caaagcttgt 360
gaagagaatg agaagacaaa agctgagaac aaggctgcta agaaagtatc cgctattctt 420
tcatgggaaa acacatagaa agcaaacata gaagctgaac tgaagaagat tgatgaacaa 480

<210> 17178
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-A7

 <400> 17178

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 catagaagag cgatctcaag aactgaagaa taagatgatg ccatcatgaa cctggagaaa 420
 gccattgaag agaagtcaaa ggctattacc tctatgctgg a 461

<210> 17179
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-A9

 <400> 17179

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 ccatggcgta cggcgaccgc gtcaccacct tcgaggactc cgagaaggag agcgagtacg 180
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 tgtatgaact tgttcgtgtc ggacatgata acctcattgg ggaaattatc cgtcttgagg 300
 gcgattcagc tacaatccaa gtttatgagg aaacagctgg actgatggtt aatgaccctg 360
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 ttga 424

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<211>      431
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3060-043-Q1-K1-B11

<400>      17180
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gtttctaata	tgctactggg	ctccagtggt	ttcctacaca	atgttggtct	tcagtctgcc	180
ttcaagaaaa	gctccacaac	aactgtttcg	gcaatggctc	aacaacttca	ggatgaacta	240
gagatcgaga	agcaagaaaa	agatggcctt	caggaagaag	tggaaacctt	gaaggcttaa	300
gcacaagcat	ctcaggagac	cactgatagt	atgaagaggt	cgatggaaga	aaataacagc	360
ctccttcgtc	tactattaag	cttcaatcga	ggccaagtgc	ctccatctta	agtctggttg	420
accactatag	g					431

taattcccgg	gtcgagccag	gcttgcaatc	ccaccaacat	ccacggccgg	ccaccctttt	60
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gcactcccaa	taggctgacc	tacgacgaga	tccacagcaa	aacgtacatc	tacgtgaaag	300
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<223> Clone ID: LIB3060-043-Q1-K1-B4

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<210> 17183

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-B7

<400> 17183

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<210> 17184

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-B9

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cgcaggagga gtacctcaac gcgccaggcg agacctactc cgtcacctc accgtgccgg 360
gcacctacgg cttctactgc gagccgcacc aaggagcagg aatggtcggc aagatcacag 420
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<210> 17185
<211> 376
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 17185

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accgagcggg gccgcg 376

<210> 17186
<211> 317
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-043-Q1-K1-C7
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<210> 17187
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-D1

<400> 17187

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 ccagcatggc gggggcgggg gcgaaggcgg cggggcggt ggctctggcg cgcgtgctcg 120
 cgctcgctgg ggccaactcg gagggcgacg cgctctcggc gctgcgcgg agcctcaggg 180
 accccggcgg cggtctgcag agctggtacc ccacgctcgt caaccctgc acctggttcc 240
 acgtcacctg cgaccgcgac aaccgcgtca cccgcctaga tcttggtaat ttgaacttat 300
 ctggtcatct ggtgcctgag cttgggaaac tggagcatct tcagtatctg gaactttata 360
 agaataacat tcaaagaaca atcccttctg agcttggcaa tttgaagaat ctaataagct 420
 tcgacttgta caagaacaac atttcgggga caatacc 457

<210> 17188
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-D10

<400> 17188

gttcggaatt cccgggtcga gccacgcgtg cgatgatatt tcagaacaag tccgaacgta 60
 ctgaaggaga ggaggaggag gaggaggagt ggcggacga gccagaggcc tcgggtcttc 120
 gtctctcccg gtggctaacg tgcaggcgt tgcggagtct tgcaacgaca acggagccga 180
 tgcgccggtg cccgggaggt acctcatcaa ggatcctagc gccgaggagg tcgtagccgc 240

cggcgacagc gcttgcgcga ttccgggtcat cgatttccgc aagcttgctc atcccgggtc 300
gtcccaagag gaatgcccc aagcttggaac 330

<210> 17189
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-D12

<400> 17189

ctcggttcgg aattccgggt cgagccacgc gtccgacgcg gtccaagcac atcaacttac 60
attagcacag aagagaaacg ggcacacgca agtgatcaag gcataggaat attgaccgtc 120
ggcactgggc gacttgatcc ctgggctgcc ggatgaaatg accagcgagt gccgttagct 180
ggtagtctta cgaccaactg gcggaggatc actccatc acgccagctg aagtccaatg 240
tctattcaac cagactacc 259

<210> 17190
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-043-Q1-K1-D4

<400> 17190

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ggttttttcc ttctccttgc tcgttcgctc gccgtggacg gctccgagca gctggaagag 120
tctgcgcgc gccaaagtac cgagagaagct gcgagatcag agtagttgct tgccgctccc 180
gtgccaccaa attagattgg acgtagctag cagctagctg agccgtagtg cgtagcggca 240
gctaggctgc tagctcgatc gttatagctg cgtactagtg gtgtcgagc agaagcagta 300
gccagcttca gtagccgatc cgggtggtaa agcaactttt tttggacatg gcggcgngag 360
gagccccggt gcttgtgaag catgcttgcg gcgtggaaga gctgcggcag ctcccgccgg 420
ggttccggtt cccgcccacg gacgaagagc tcgtggtgc 459

<210> 17191
<211> 160

ttaaattgcaa ctgatgaaca ttgtgatttc caaacagtct attcaagtgg aattaataga 300
 aaagccagtc tatctcctga caatttagct gatgacctag gacccctttt tgaagcaatt 360
 cttagatgca 370

<210> 17194
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-E2

<400> 17194

cctgaattcc cgggtcgacc cgcgcgtcac gtcagtgtcc gaggccaaag acgggcgagg 60
 cttgggtgaaa gtgataagat tattgtatat actgttcgtg tcaaactgtc ggagaggaaa 120
 ctagtgaaac tattataccc tctagttgtg atccatgctc tattgcctct tcccctctac 180
 ccgtatacta cttttatgct gcttgttggt ctaaattcct gattgccggc cgtcccgcct 240
 tcttcttgc caagactaga c 261

<210> 17195
 <211> 482
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-E3

<400> 17195

ccggtcctga attcccgggt cgagccacgc gtccggcttc gcgtctccta ctccttcctg 60
 cttccaccta ttaatccacc cactctctt ccctgcccgg tccaccgcc tctaccgccg 120
 cgagatccgg ctccgcttcc agaagcttct ggaacgcccg ttccatgagc gtctgatcgg 180
 ccgccgccat gggctgcgct ggatccaccc ccaaagtcga cgagaacagc aagaaactga 240
 aaaggcctaa ggcttggaag cataccaac caattacacc ggcacggctg aaacagatgc 300
 gtgatgagtt ctgggacacg gtcccgact acggaggcca aaaagagatc tgggatgctc 360
 tgagggttgc cgcagagtcc gatctagccc ttgcccacac catcgtggac agtgctggaa 420
 tcatcgtctc gaaccctgac atgacgctct gctacgacga gagaggcgcc aagtacgagc 480
 tg 482

[illegible]

<400>	17196
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<210>	17197
<211>	443
<212>	DNA
<213>	Zea m

<400>	17197
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7457

<210> 17198
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-E8

<400> 17198

ggaattcccg gcggacaagc gtgtgggacg acgtggtggc cgggctcgc ccggagacgg 60
 tctctgagaa gctccgcaag gccaccaccg cgcgcgcgct cgtcatcaac gaagacgcgg 120
 acggggcgag ctacaagcgg gcgcagtcga cgccgtcgac cccgacgacg ccggtgacgc 180
 cgtcgtcgtc gacgacgccg cgcggcgccg gcaacgtgtg gcgcagcgtc ttccaccgg 240
 ggagcaacct ggccaccaag ggcatgggag ccaacctctt cgaccggccg cagcccaact 300
 cccccaccgt ctacgactgg ctctacagcg acgagaccag gagcaaccac cgctagatcg 360
 ggcgagatgg atggacagtg aaaaggccat ggtttgctgt cctttggggg aatctaaacg 420
 cacgcatgct ctattatagc ta 442

<210> 17199
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-F12

<400> 17199

ccgggtccga attcccgggc tcgctggctg ttgcctgctg cggattgcc ccaggcgggc 60
 cccactcatt ccgctgctga tatttcgttt ggttctcctt tccgtcttgt ccgtcgccga 120
 ggccttccgc tcgctcccca gctccagcag gcagatcaga tccatccaac cacgaacagg 180
 aaggaaggta ggaggagggg ctgaagttga accatgagtg ccgtcgcggt ttcgtcgtcg 240
 ctgaaccgga acgcgcgcgt ctccatcccg gcggcgctgc tgcagggtga ggacttctcg 300
 ccgcagtggg gggacctcat caccaccacc gcctgggtcc gcgaccactg gtcccgcgag 360
 cacgccacc tggacgagat agccgagcag ctcgagttgg tcgccctcct tgccctacgat 420
 gaggatg 427

<210> 17200

<211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-F2

<400> 17200

tccggaattc ccgggtcgag ccagcgcgtc cgctctggtc cgtggccatg gcgtcgtcca 60
 tgctctccgc taccaccgtg ccactccagc aggggggcgg cctgtccgag ttcgccgggc 120
 tcaggagctc cgcgtcgtg cccatgcgcc ggaatgccac ctccgacgac ttcattgtccg 180
 ccgtctcctt caggaccacac gcggtcggca cgagcggcgg gccgcggcgg gcgccgacgg 240
 aggcgaagct gaaggtggcc atcaatgggt tcggccgcat cgggcgcaac ttcctgcggt 300
 gctggcacgg gcgcggcgac gcctcgcccc tcgacgtcat cgccatcaac gacaccggag 360
 gcgtcaagca ggcgtncac ctgctcaagt acgactncac gtcggcatc ttcgatgccg 420
 acgtcaaacc cgt 433

<210> 17201
 <211> 478
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-F5

<400> 17201

tccggaattc ccgggtcgag ccacgcgtcc gcggacgcgt gggcttacgg tgggccggta 60
 gagttactgg tattatgtgc tttacgttat cagtgtcggc ttcttttgca ttgtcaccga 120
 gcgtgtacag gggttttagta tggttggtcta ggttactttg ctgatcaagg ttcgaatgta 180
 tttgttcttt taaacatatg cactccgatc tttatatgat ggaccatttc tttgtgtctg 240
 tgacggcggt tttttcatgc tcggcatggt gcacagctct tgtttctgtg caagattcaa 300
 aattttaccc agcaaatttt gttctttgcc aactacgggt gacaggtgac agtgtgctct 360
 aaattttaca ctataaacgc tagtttgga gccacanaac cggaaaggat tgtacaggct 420
 aaaatttatt tcttatttaa atttgattaa gaaagatatt ttagtccttc caatccta 478

<210> 17202

<211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-G12

 <400> 17202

 cggaattccc gggtcgacgc cacgcgtccg accagcgact cccgtagctg gaactcgctc 60
 gtcaaaagga gagctcagat ccttcagctt ttcctttcac tctgcttcta gctgctgcat 120
 tcgacgcata tgctgaccaa aacatccagt tctagtttct ccactatagt ttgatataata 180
 tacatatgta tagaagggtg aataatctat cactcttgct cgttaccag gaaaaggaaa 240
 cacttcgctt cagctcgctg acagacgacg actcagagca aaatgggtat actggtgatt 300
 acggtggacc tagactgctg tcgctgcaga gccaaagatca cc 342

<210> 17203
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-G2

 <400> 17203

 accggtcctg aattcccggg tcgagccacg cgtccgagag gaagagctcg gtgatgccgc 60
 ggtctacgcc ggagcaaagt tcagggcacc agtggagccg tactaagaaa ggaagaggat 120
 gaggatgttt tcttgtggag ctatactagc tcgctgctgc cttttgttac aatgtttgta 180
 cggtcgcaat aaatgtatgg tcgtgtttgc tcgagagcta ctcaggatgat tttgtcgtgg 240
 gagcaccaaa agcagaaaag aacccttttt tttcaatctc tctagattct gacgagtggg 300
 ggtctgcact cgctgtaatg tcgtttgcct aaactgattt tgatggaaca ggaaatcttg 360
 ctggtcttgc c 371

<210> 17204
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-G5

 <400> 17204

ctgaattccc gggtcggccc acgcgtccgt gacgctgccg ccgtccgccg tctgctgcc 60
 ttcaattctt aaggaaagat caatttgatg tccgattacg cgggccagaa gcgctgcctc 120
 aaaaaaagtg aagctgataa ttgcaatgat gaagacattg gctctccgac ctctatagat 180
 gcagaagttg ggaaggaagc aaaattgaag aatcacaata aggaaaggaa gaagaaaaag 240
 actaagttgt tggaatccca gcataacaaa gaagaagagg agatgcggca gctggagagc 300
 tcattgtttg gttcccttta tgctccactg gagtttgga ctgaggttaag ggctgcaata 360
 actcctgacc gggatgcgcc ttttgttttc acagataggt ctgctggtgg tggcatggat 420
 tatcttccta cata 434

<210> 17205
 <211> 478
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-G7

<400> 17205

ccggtcctga attcccgggt cgagccacgc gtccgctcga tcgctcatca atcgccagag 60
 gagttgttga tcgaggtgag tgaggttgaa aagcacacga tcgtcatgga cggcggatac 120
 tacggctgtc gcgatcagcg ctacaggaga gggactacg gcggcgggtg catatcaacg 180
 ccggggtacg ctccggcggt cccgtacggg atgtctcaag tgaacatcga gggcaacggg 240
 tgcggtcggg cgctgccgcc gcagccgacc gtgaaggtgt actgccgagc caaccccaac 300
 tacgcatga gcgtacgcga cgggaaggtg gtgctggcgc cggcgaaccc caaggacgag 360
 taccagcact ggatcaagga catgcagtgg agcacgagca tcaaggacga ggaaggttac 420
 ccggcggttcg cgctggtgaa caaggcgacc gtggaggcca tcaagcactc gctggggc 478

<210> 17206
 <211> 324
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-G8

<400> 17206

tcccgggtcg agccgcgcgt ccgcgcaagc aatccttcgg acttcggtgg gggaaatgga 60

ggccgcccgc gccgcccgaga cggggcgcgcg gcagaaaccg gttgtgctgt acccttcgcc ,120
 ggggatgggc cacctggtct ccatgatcga gcttggcaag atcctcggcg cgcgngact 180
 gtccgtaata attgtcgctg tcgagcctcc cttcaacacg ggcgctacgg cgcctttcct 240
 cgccggcgtc tccgcgccca acccgcccat ctccttcac cgctgcca aagtcgagcg 300
 cctnnccgcc gtcaagacca agca 324

<210> 17207

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-G9

<400> 17207

tcggtccgga attcccgggt ctggtttcgc tgccccgatt cgccacgaag cgcactgtg 60
 agagagggac gcggcccgtt gtcctcggt tgtacgaat ccttcgctg ctgcgaagct 120
 gatccctcgt gttcgccatg gccccagcg tcgccgtgga aaacctcaac cccaaggtct 180
 tgaaatgtga gtatgcagtc cgtggcgaga ttgtcatcca tgctcagcgc ttgcagcaac 240
 aactacaaac acaaccaggg tctcttcctt ttgatgagat cctgttctgc aacattggga 300
 atcctcaatc ccttggtcag caacctgtga cgttcttcaa ggaggttctt gctctttgtg 360
 atcatccatg cctcttgga aaagaggaaa ccaaatcatt gttcagtgct gatgctattt 420
 ctcgagc 427

<210> 17208

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H3

<400> 17208

cggaattccc gggtcgaccc aggcgtccg attcatctat gccatttaa ggatctatgg 60
 cgtgccttca atgcaattgg tgaaggcagt gcggtgaagg aaattgtcat gctgccaag 120
 cccatcaagg acaatgcaaa caaggccaga ggaagaccgg acatgccatt tccaggtggt 180
 gacatttcta ttcttacgcg cccaccaaac attttggtt tactaaatga ctatgtgcac 240

gaatgctttg tggatgttga gagggattat ctgtgcttga caaaacagta tcccagactt 300
gcaattactc cagaattttc taagggttggg cattttgtac attgaacttt tgttgctgat 360
cgatattcaa tgtggcctttt ggcattctct gtcactctag ctaggtcctt ggatgagcca 420
cactattgac atggggtttag gtgagtgact catcacggtg cctttatatg gctcg 475

<210> 17209
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H9

<400> 17209

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tatgtgttcc ttagggtttt gtggaggggc gatggcggcg gctgatgtgg agtaccgttg 120
cttcgtcggc gggcttgctt gggccaccag caacgagtcg ctggagaatg ctttcgcctc 180
ctacggcgag atcctcgact ccaaggtcat caccgaccgg gagacgggga ggtctcgcgg 240
cttcggcttc gttaccttct cctccgagaa ctccatgctc gacgctatcg agaacatgaa 300
cggcaaggag ctcgacggcc gtaacatcac cgттаaccag gccagtcctc gtggcggtgg 360
cggtggcggc ggtggctacg gcggcggtcg cggcggtgc ggctatggtg gcgggcgcgcg 420
tg 422

<210> 17210
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-A10

<400> 17210

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gccgctggcc gccaccgcgg cctccgtcgc gtggcgctc ccgcgcaagc cggccacctc 120
caccacctcg ctcgaggtcg tcgcggcggg gaagaagggc tacaagatga agacgcacaa 180
ggcgtcggcg aagcggttcc ggggtgacggg gaggggcaag atcgtgcggc ggtgcgcgg 240
gaagcagcac ttgctcgcca agaagaacac caagcgcaag aagaggctct cgaagatggt 300

gcaagtcaac aagagtgact acgacaatgt tacgggtgca ctgccctacc tcaaagtga 360
taggaaagca aactgagagc tacgggggtct tcaaaaaatc attaagtttc gttccaccaa 420
attggaatt 429

<210> 17211
<211> 483
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-B8

<400> 17211

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gtgctagtcc ccttccttc catccatcca tgggatgggt cagcaccttc cagagctgcc 120
ccattgccag aagagcaaag atcaacacca ggtccagggg cagcagcagt agcgtggcga 180
aggggtcacc accaccagcc ttccagtctc agtgcagggc gtcgactttc gcggcggaca 240
ccagcctccg gctcgagctg gacgagaacc ccgaggcgat catctcgggg gcgtggcccg 300
ggaactgctc cctcctcagc tacgacgacc tccgcgcta cctcgagtcg caggagacgg 360
cgggccaggc agacgatcag cgggcggtgg cgctcctgag cgagaccatg tccacaccg 420
tgctgggtggc cacagcagac cagaccctgn aggacgtcga gtgccacttc gaggccgtgt 480
cgg 483

<210> 17212
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-B9

<400> 17212

cggtcgggaa ttcccgggtg cgacgccacg cgtccgcaga gtttctgggt cttaacaaat 60
gcctacagaa ggtatgtatg tggcttctct aagttgggtc tgttgccat ttaggaatta 120
ggattagatg attagtggat tactcactca gacaagcatc ttctgcaaca ggcaattttt 180
ctgtttcata atcaactggg tctgaaatgt ctcatatcaa ctaatggccg tgagaatgtt 240

atttaggctt atataagtta tacagaagat atttcgttat gataatgcac aaaagttatg 300
 gtgtgcaatg aaaggtatat ttgagagtaa tagaaataga ctcatgtgac tgcacacctta 360
 actgtaagtt tcttgtgtgc gactcatcgt aatcgacagt gtttctgtgt tccaatttgc 420
 aggtgcaaaa tgtgtttt 438

<210> 17213
 <211> 473
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-C1

<400> 17213

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 ctgcacacag acacaccaag cgtcggcacg aatggcttac taccaggagg tggactactg 120
 ctccgaggag gtgaggtcgg tggccccggc cggcttcggc cgccacggcg gcggcgcca 180
 gcagcacgtc gtcaaggaga agttcgagga gggtcgacacg gtcgcacgag ccggcgccaa 240
 ccaccaccac caccatggtc accacggcgg ccacggcttc gtggtgagcg agaccagggt 300
 cgaggaggac atcaacacct gcaccggcga gggtccacgag cgcagggaga gcttcctcgc 360
 cagggctaac tgagcagccc cggcggccgg catccacgcn cgttcgtgcc tgctgagctg 420
 ccttatgtat gtctgtgatt gtgcagggtc atcgtacttg gctagcgtac gta 473

<210> 17214
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C10

<400> 17214

gggtccgaat tcccgggtgg acccacgagt ccgctgagcg gtggcactgc cgtcctcgtg 60
 ccgggcccgg ccggcggggg gcagccggag ggcggcgatg gtggtgacgc gcggcgccgg 120
 gtcgagcccc aagctgccga acggcgggcg gctgccccgt gctgtggtgg gagggcgccc 180
 cgccgggtgg gccggcgggg aggcgctggc caagggcgcc gtggagacgg tgctaataca 240
 gcggaagatg gacaactgca agccctgagg cggcgccatc ccgctgtgca tgggtgacga 300

gttcgacctg ccgctcgacc ttgtggaccg caaggtgagg aagatgaaga tgatttcgcc 360
gtccaacgtc gccgtcgaca tcggccgcac gctcgcgccc cagagtaca tcgggatggg 420
caggcgcg 428

<210> 17215
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C3

<400> 17215

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ttctaaatcc taaatcaggc aacagcacgc ctacacagct ggtcacacac accttatatc 120
aagaattcat ttccaaagca ataactttgc ctgggtcaacg cgagattatg gatatgatgg 180
aagttgcaaa tcttgatgca gttcatgctg tccgtaactt tattaacaac gaccttgcca 240
tgcaacttaa agatgatctt cttgccactg ttaaaagcaa cagagttct gaggcttaca 300
catttaacca tcatactatg gctcggcgca cattcaaaaa tacatgcctc tcataccttg 360
catcattgaa tgaccacat tctcgttagc ttgcaactgca tgactacaag tctgccacta 420
acatgac 427

<210> 17216
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C9

<400> 17216

ggtccggaat tcccgggtgg acgcacgcgt ccggccatga acgttctggt caccgcggca 60
tcagggtggcg tcggcctcta cgccgtgcag ctggggaaac gggctggtct ccacgtcact 120
gccacctgcy gcgcgcgtaa cgtagagctg gtgaagagcc tgggcgccga cgaggtgctt 180
gactacagga cgccggaggg tgccagcctg cagagcccct cgggcaagaa gtacgatggc 240
gtcgtccact gcactgtcgg gaccagctgg tcgacgttcg agcctgtgct ggctgccacg 300
gggaaggtga tcgacatcac cccgaacttg actgccatcc tcaaactcggc gctgcacagt 360

gtgaccttcg ccaggaagcg gctcgtgcc ctgctcctgt cgccaacaa ggc 413

<210> 17217
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-D10

<400> 17217

cgcccggaat tcccgggtgga gcacgcgtcc ggtgtctggc ggcgcataga tagatagcca 60
tggcgaagaa gccagtggag gaagcgcgcc tggcagcggc ggacgagcac gaggaggaga 120
gcctgagcgt gcgcgaggag ctgaagaagc agctatggct ggctgggccc atgatcgccg 180
gcgcgctcct gcagaacgtg atccagatga tctccgtcat gtacgtggga caccttgag 240
agctgcccct cgctggcgca tccatggcca actccttcgc caccgtcacc ggctcagcc 300
tgctgctagg catggcaagc gctctagaca cactgtgcgg ccaagcgttc ggcgcgaggc 360
agtactatct cctgggcatc tacaagcagc gcgccatgtt cctgctgacc ctggtgagcg 420
tccctctgtc 430

<210> 17218
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-D9

<400> 17218

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tccgatcgcc atcacgctcg ctctcgctcg cgtcgaaccg ccgcagcacc ggcgcttcg 120
cgttcccga cccaccgcgc tcccatgcc tgcgttctgc gcgtcgactc gtccttgcca 180
ggcgggcggc agcgccggcg ccggggcgatg gccccgagga cgagtggggg ccggagcccg 240
agggcggggtc cgctgtcacg gggggccgcgg tggcgaggc gccggaggcg agagaggtcg 300
cggagctcaa ggcgagcta aaggacgcgc tgtacggcac ggagcggggc ctgcgggcgt 360
tcagcgagtc gcggggccaaa gtgctggagc tcatcacgca gcttgagacg cgcaacccca 420
cgccggctcc tacggaggcg cttacgctc 449

<210> 17219
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-E11

<400> 17219

gtccggattc ccggtggacg ccacgcgtcc ggtgaggtag ctgatcgaga gcatggatca 60
 tcgctcagat ttgcggaaga agatggcgga ggaatctcgt aattcagtag catccggctc 120
 ccaggggcaa actgcaaagc caaggccatt ccccgtagct gatgggatac cgaaaacaca 180
 ggaagagctc acctaataag aggaagcgtt gatgccagag tctccataca caaggttgct 240
 gagaaggatg ggtagatacc ctgaatggta caccacacgc cctgatcatg agactgactg 300
 aatcaagtca tctaccatcc aagtgtccct tttggaagtt ttgcagcatg ataacttgaa 360
 gctgaaactc ggtttatgag atattgtaat attttagtgt tgcaccta 408

<210> 17220
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-F2

<400> 17220

gggtccggaat tcccgggtcg acgccacgcg tccgctaata tatagataat cgaaatcgaa 60
 aagaactgtc ttttctgtat actttccccg tgctgttgct accgcgggtc ttatgcaatc 120
 gatcggatca tatagatata ccttcaacac aacataggct atcgaaagga tctcggacga 180
 ctcaccaaag cacgaaagcc agttagaaaa tggattccta tttgaagagt gcctaaccgc 240
 atggataagc tcacattaac ccgtcaattt tggatccaat tcgggatttt tcttgggaag 300
 tttcgggaag aaattggaat aatatcgatt catacagagg aaaaagttct ctattgatgc 360
 aaacgtgta cctagaggat agggatagaa gaagaggga aaatcgaaat gaaataaatt 420
 aagaataaag cccaaaaaat aagtcg 446

<210> 17221
 <211> 455

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-F4

 <400> 17221

 ggccccgaat tcccgggtcg acgccacgcg tccgctgagc tcgcccctcc cctcagccat 60
 ggacacgacg acctgcagcc cttcttgggtg gccgagccca tcttctctgct cgcgccccct 120
 ctttttccac ctctgcgcgt atcagctcgt ccaacccccca tgggtgtttcc tccctctcgg 180
 ctcccttctgct ccctccccat ggcgttcccc ctggatgttg gtgatctgtt cccacagggtg 240
 caggcaaatg ttctttccct ccctgcagca gcaccttggg ggttgctgag cagcacgtcg 300
 cgcttgcgca gcctcgggtca tgacgttggt caccctgcta accattgggtg tcatacctca 360
 cgtgtcatgt gttcgccgaa atgcctaaac atgtagtctg tcgtcgtcgt atccacagtc 420
 aattttagtc atggtacgct agtgatcgag atgcg 455

<210> 17222
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-G12

 <400> 17222

gtccggaatt cccgggtgga cgccacgcgt ccgatcgatc taaaccaatc cattntatat 60
 atacatacga catgccaacg gttaaacaag ttagtagaaa tgcaagacag ccaatacgaa 120
 atgctagaaa atcggccgcg ctttaagggtg gtcctcagcg tcgaggaaca tgtgctaggg 180
 tgtatactat caacccccaaa aaacccaact ctgccttacg taaagttgcc agagtacgat 240
 taacctctgg atttgaaatc actgcttata tacctggtat tggccataat ttacaagaac 300
 attctgtagt attagtaaga ggaggaaggg ttaaggattt acccggtgtg agatatcgca 360
 ttattcgagg aaccctaaat gctgtcgcag taaagaatcg tcaacaaggg cgggtctaaat 420
 atggggccc 429

<210> 17223
 <211> 411
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-G9

<400> 17223

tccggaattc ccgggtggac gcacgcgtcc gcgggcgctg cacacagaca caccaagcgt 60
cggcaccaat ggcttactac caggaggggg agtactgctc ggaggaggtg aggtcgggtg 120
ccccggccgg cttcggccgc cacggcggcg gcgtccagca gcacgtcgtc aaggagaagt 180
tcgaggaggt cgacacggtc gcacgcgccg gcgccaacca ccaccaccac catggtcacc 240
acggcggcca cggttcgtg gtgcgcgaga ccagggtcga ggaggacatc aacacctgca 300
ccggcgaggt ccacgagcgc anggagagct tccttcccag ggctaactga gcagcccggg 360
cggccggcat ccacgccgt tcgtgccttc ctgcgtgcct tatgtatgtc t 411

<210> 17224

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-H11

<400> 17224

tcccggtcga cgcacgcac cggcgactgc tagtgctagg aggccatttt taatggcaca 60
cacttttttt ttataaatgt acgggtagcc aatttgactt gtcctgccaa ttccgtcaa 120
ccccctccaa atccatctat aaaacacaca ataataacca taaagtcaat gttcgtggat 180
tgccatcatc ccttactaca actatgcgct ccatcaacta ataattgatt ccactgccaa 240
tacctactat g 251

<210> 17225

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-H12

<400> 17225

tgcgcttcgg ccgttgcgga ccgcaggagt gacgattcca tggcggagga gatggggcag 60
gcgcaaccga gactcacggc gccacgttcg gtccgctgta ttgtcaagct aggtggagcg 120

gcgattacca acaagggcga gctggagagc atcaacgagg agaacctacg gtcggcatgt 180
 gcgcagctgc ggcattgcat gtccgaatct gacggcgatg gcgccatgga gaaggttctg 240
 ggaatggact ggagtaagaa gcccggagat cctgtcgacc cggcccggtga cgcgaggatgg 300
 atcgcgggga tagctaggct ggggctcgac actaacttcg tcgtcgtgca cggggcccg 360
 gtctt 365

<210> 17226
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-A10

<400> 17226

ccggaattcc cgggtcgacc caccggttcg ctcgaagagt ttttcaagag cttaattatg 60
 ttcaggaagg ccaaaatgca cgaaggtgta agaaactata tgccgataag caagatgtat 120
 tagtgctga tatattttgg gattacacaa gtgcaaaggt tctaacaatg gagtggattg 180
 aggggtgtaaa attaaaccat caagcagtta ttgaaagtca aggattgaag gttctggatt 240
 tggatcaacat tggatccac tgtagcttga gacagcttct ggagtatggg tactatcatg 300
 cagaccctga tcctggtaat atattagcaa cacctgaggg gaagctggct tttcttgatt 360
 ttggcatgat gagtgaaca 380

<210> 17227
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-A12

<400> 17227

taccgggtccg gaattcccgg gaggaagaaa cacattggag gggctcatcc ggttcatcta 60
 caaggccatc aaggagcggc gggcccgag ctacgggtac tactactcgc ggtgcaactc 120
 caccggctcg tcgcgcgcc ggctcggggc ccgcgtggag gacagctcgt gggacctgca 180
 gcagaagcag tgggagtccg ccgtcgggtg caaggcgccg gcggtggcgg cggcggagcg 240
 ggagattgcg caggcgcacc gtcgccaacc gtcctcgac gagctggcgt gtgggggtgg 300

gcgcctagcc ccagtgcac ctgctcgact gctacgagtc cctcatgtgc ccgtcggtga 360
cactgggcct 370

<210> 17228
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-A5

<400> 17228

cgggctgagc cacgcgtccg cttctctctt tccattcct tcttccact ccccgccca 60
gcgccaccat ggctcctcc gtgcgggtgt ccctccgcgc cctcgtgcc gcccgtcc 120
ccaagtccag ccccgccact tctgcccct tcttctgtgt ccttgccgcg gcgtgcccc 180
gacgcctgt cgcctccgc tccgtccgc gcctgccgt cgcgccgct gccgcctccg 240
actccgcctt cgagtcctcc gtcggagtta actacgcgga gcccgacgac tcggagaagg 300
ataaggaggt ggagttgttc ggatcgggtg acgacgagg ggcggtgag ttggtggatg 360
accattccgt agaggtctca gccgctgtcg 390

<210> 17229
<211> 72
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-A7

<400> 17229

taccggttcc ggaattccc ggtgcgagcc acgcgtncgc tgcacctgca tcttcggccc 60
tgtgatccct tg 72

<210> 17230
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-A8

<400> 17230

accgtccgga ttcccggctg agccacgcgt ccgcgctcgt tccctttcga aagcccgcgc 60
acgcacgtcg gtctgtccga gcaggacctg gatcggccga gatggcgacg ccgaacgggc 120
ttgcgcggat cgagacgacc gggaagaaga agcaggacaa cggcgtgtgg tacgacgaca 180
gctcggcgcc ggtgcgcgcg cagaccatcg acgagctgca ctgcctgcag cggaagcggc 240
cggcgcccag caccgccaag cggtcggcgc ccaccacgcc catcaagggc ggtgcccact 300
cgcccttcgc cgtcgcgata tccgaggagg agcgccacac gcagcagatg cagtccatca 360
gtgcgtcgtt ggcgtctctg acgcgtgaaa ccggggccgaa agtggtc 407

<210> 17231
<211> 371
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-B1
<400> 17231

ggaattcccg ggtcgagcca cgcgtccgct tcgtgttcgt gccgaagagc tccacagttc 60
gtctggttcc aaagttacca agtaggacat agaattctgg aagcaaattc ctccaaacga 120
gccctaccgg gtgatactag gccatgtaag ggacaagctg tacaacacac gcgagcgtgc 180
tcgccatctg ctggcttctg gagtttctga aatttcagcg gaatcgtcat ttaccagtat 240
cgaagagttc cttgagccac ttgagctgtg ctacaaatca ctgtgtgact gcngcgacaa 300
ggccatcgcg gacgggagcc tncctggacct nctgcgccag gttgttcacg ttcggggctc 360
ttccctggtg a 371

<210> 17232
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-B2
<400> 17232

tgctcgtaac ggtccggaat tcccgggcct tgagccactt gagctgtgct acaaatact 60
gtgtgactgc ggcgacaagg ccatcgcgga cgggagccgg ctggacctcc tgcgccaggt 120
gttcacgttc gggctctccc tgggtgaagct ggacatccgg caggagtcgg agcggcacac 180

gacggcgagc tcgaactcga ccttgaaggg gaagttggcc gtgacgcgct

350

<210> 17235

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D8

<400> 17235

gtccggaatt cccgggtcga cgccacgcgt ccgtcaatat ataattgctc cagtgaataa 60

ctaaaaaaaa aaaatagaag gacggtagag agtagagaaa aggactaatc ataatatcta 120

tctttaaaag attcaataaa aagacagttg gcgggtctct ttgtatgtct tgtccgaaa 180

gaggaggact taatgattat tcgttcgctg gaaccagaag ttaaaattgc tgtggatagg 240

gacccataaa aaacatcttt tgaggaatgg gccagaccgc gccatttctc aagaacaata 300

gctaagggcc ccgatactac cacttggatc tggaacctac atgctgatgc tcacgatttc 360

gatagtcata ccggtgattt ggaggagatc tcccgaaaag tctttagtgc t 411

<210> 17236

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E1

<400> 17236

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cccaagaaac ccacagcagc cgctaggcgt gaggatggcg gacaccggtg acgtcgccgc 120

cgccgcccag gcctcggcgc gaccggcggg cagcagcagc acccagccgc tggcggggcg 180

cgtggcgatc gtgacgggcg cgctcggggg catcgccgc gccatcgcca cgcacctgtc 240

ctccctcggc gcgagcctgg tgctgggcta cgcggcgcgc gccgacgagg cgggcgcgct 300

ggcggcgctc ctcccgcgcg cgggtggcgt gcgggcggac gtctcggacg aggcgggcgc 360

gcggtcgctc ttcgaccgga cgacgaggcc ttcggcggtc cgcacattct ggtg 414

<210> 17237

<211> 454

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-E11
 <400> 17237

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 cttttctgtg gtgcggtgcy ttcaagatgt ccggatgtac gtgcgcatcg ggttttggga 120
 tccgattgcy cctcctgcy catagggagt ataccgtgct cttttgtttc tccatggatt 180
 gatactttct ctgctgattc ttatcaggtc ggaagatgtt ggatcttccg cttcaaactc 240
 acgcataaag gacgcagatt agttttattc gcgtcaaatt tattttgtc ggtgtagttc 300
 tggtcattaa ttaataattt tgtactggat ttaagggtgt tttattttga aggtttcttc 360
 tcccggaaat tttcacatcc cgaaacgact ggaaattgaa gtagccattt gatgctgtta 420
 cctgngttca taagttgtta gacttggtat ttgg 454

<210> 17238
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-045-Q1-K1-E7
 <400> 17238

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 agtccatcca cgcggatctg attgctccgg ttcgttcctt tgcgatcttg ctctgctctg 120
 ctctgctccc gagctctgct gattgctggt acttcttggt taagaacccc gctttggaaa 180
 gaaccatgct gtatgtccat gtccaccaa ctgaccacca gcttccgtat cggatgcat 240
 cttcagtgt tatctgcata agcaacaaca acttcggtcc agagtcttat attgcgctgc 300
 cttcagatgt acatggacca gaaagaagtg gtcgatgccc tatgccacca ctccaagata 360
 gagccctgca ttactgaact tgcatgccta caacttgagc atcaaaatcc ttctgttttc 420
 aaggcgtact atatgagact aatg 444

<210> 17239
 <211> 434
 <212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-F12

<400> 17239

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ctgccccgcc gttccttggg gaaggtaacc aggaagggcc cgtcccggtg cccgctgcaa 120

cccgcgctgc tggcgcccc gctcgtgccc ggcttctctg ggccgncggc cgagcccacg 180

gttgagccgg catcgactcc gacgtccgtg cccgactccg gcctgggggt cctcggtctc 240

gaacctgaaa ggattgctga aggttccatc gataacacag tagttgtggc aagtgagcaa 300

gattctgaca ttgtggttgg aaaggaacaa gctcgagcta aagtaacaca aaacattgtc 360

tttgtaactg gcgaagcttc tccttatgca aagtctgggg gtctaggaga atgttgtggt 420

tcattgccat ttgc 434

<210> 17240

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-F8

<400> 17240

tccggaattc ccgggtcgag ccacgcgtcc gctcgctctg gcctctttta aatatcgcg 60

atccccgcgc cgcaaattggc tcacgcggcg ctgctccatt gctcccagtc ctccaggagc 120

ctcgagcct gccgcgcgg cagccactac cgcgccccctt cgcacgtccc gcgccactcc 180

cgccgtctcc gacgcgcgt cgtcagcctg cgtccgatgg cctcgtcgac ggctcaggcc 240

cccgcgacgg cgccgcggg tctgaaggaa ggcatcgcg ggctgtacga cgagtcgtcg 300

gggctgtggg agaacatctg gggcgaccac atgcaccacg gcttctacga ctcgagcgag 360

gccgctnca tggccgatca ccgtcgcgcc cagatccgca tgatcgagga ggcgctcgcc 420

ttcgccggtg tcccagcctc agatgatcca gagaagac 458

<210> 17241

<211> 427

<212> DNA

CCGGAATTCC CGGGTCGACC CACGCGTTCTG GAGCGCACAC CACACACAAT CAGATCTCCC 60
CCAAAACCAA CCCGTGGGAA CCTCCGCTTG AAGAGGCAAA CCTTGGGGAA AACCTGACC 120
TGGCAAGGAC TATCACCTC GAGGGGGGAG TCGTCTGACA CCATTGACAA CGTTTAGGCC 180
AAGATCCATG ACAAGGAGGG CATTGCCCCA GACCAGCAGC GGCTCATCTT TGCTGGCAAA 240
CAGCTTGAGG ACGGGCGCAC GCTTGCTGAC TACAACATCC AGAATGAGAG CACCCTACAC 300
CTTGTGCTCC GTCTCAAGGG AGGCATGCAG ATCTTTGTGA AAACCCTGAC CGGCAAGACT 360
ATCACCTCG AGGTGGAATA CTCTGACACC ATTGACAACG TCAAGGCCAA GATCCAGGAC 420
AAGGAAG 427

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G10.

<400> 17241

<210> 17242

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G12

<400> 17242

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GGTCTCTCTT TCCGCTTG GTT CCGTGGCGAA GGCCTTCTGGT TGGTTCCCAA GTTCAACCAG 120

GCAAATAAAA TCCTTCCAAC CCCGACCAGG AAGGAAGGTA GAAGAAGGGC CTAAGTTGA 180

CCCTTAATTG CCGCCGCGGT TTCATGGTAG TTGAACCCAA AGGCCCGTT TTAAATC 237

<210> 17243

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G3

<400> 17243

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AGCTTCAGTC ACAGGCCGGA CGGTCTGGGTC ACGGGCAGCT AGCTAGCTAG CCGCGCGCCG 120

gcgccatgat gaacctgaac ctgaagcagc cgctcgtgct gcccgcgcac cacagcaatg 180
tcgtcggctc gcgcctgtcg tcgtcgtcgc cctcggcagc cgccgccagc aggaggaccg 240
gcggcggcgt gtccctcccg tccggctccc ggcggcacgt gcggctgccg aggatcagct 300
gcagcgccac cgaggagggtc agc 323

<210> 17244
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G4

<400> 17244

cggttcggaa ttcccgggtc gagccacgcg tccgctgact cttatcgagt tgatctaggt 60
atccatctct tactaatcta aataggatga gacattgtct atagggggcc gtctacatag 120
ccagcgatat caacacaaat gacattctga tctgaagat gggtcacatt gaaaatgacc 180
acgatctgta gctattcacc tattttaact taatagatca ttctgcagcg tttccaccat 240
gtcttacatc gacgatctac aagcacgtca gtacc 275

<210> 17245
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-H12

<400> 17245

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cggagccgac gctggtgacg aagcgcgccg ccgtgagcgc ggccaagctg gtgccgagcg 120
acatggcgag cgcgccggcc atgaggaagg cggtggcgag cacgaggggtg cggcgggcggc 180
ccaggtggtc ggccacccag ccggcgggcga ggatggacgc gagcatgaac acgttcatgg 240
atcccgccag cacctcgacc tcgccgtcgg tgagccccac gtccctcccg atgaacagct 300
ccgcgccgct catcagcgtc aggtctgcag ggcacgtata tgggtcggtc gtaagcccat 360
gtagcatggt ggtgacggag gcgagcgtgg cgc 393

<210> 17246

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-B10

 <400> 17248

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 ggacgcctcg cagcacaagg tgactgtgag gggcaccgtg gacgccgaca cgctcatcaa 120
 gaggtgtac aagtccggca agaagggagt gccctggcag tgtcaccgcg ccgccaagaa 180
 cagcgagccc gcgccggagg ccccgccggc tccgcagcct gccggcgacg gcggcaagga 240
 tgctgtgct gctgtgtgtg tggccgcggc ggacaagaag tccgagg 287

<210> 17249
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-B4

 <400> 17249

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 caatccagcc ccagccgacc gaaacctctc cggctctccg gctctcgacc ggcgaccgcc 120
 atggccgccc cgacagacaa gaccgctgag gacatccgcc gcgagctcca ggagctccag 180
 cgtcagcacc gcgagatcac cgagcgctg cgcgaccccc gtggccttcg ccgcggcgcc 240
 cccggccctg gtcttgacc cggggcccca cgcccgtcc gcggctttgc gagaccgct 300
 gtgggtccgg aatcggggga tcaacctncg cagaagcgtc ggctgctatc agccgtagtt 360
 aaggtggatg gggctgaaca taacgaggaa ggcacaaagg atgcggatgc cgaggggcat 420
 gggac 425

<210> 17250
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-C1

 <400> 17250

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cggaagctca agttagaaga ggcaccagtg ggtgatcgat ggcggcccaa gctctcctct 120
ccggccggca gctgctgggc cgccccgtgc agtcggccgt ctctaggctcg tcggcgaagg 180
aaggcgcccc ttcgtcgtaa gggccagctc cagccctcca gccaaagcaag gtgccgacag 240
gcagctgtgg ttcgcgtcca agcagtcctt ctcctacctc gatggcacc tgcccggcga 300
ctatggcttc gaccgctgg gcctttcgga cccgaagggc accgggggct taatcaaccc 360
caattgcttg gcctacggca aggtgatcaa cggcc 395

<210> 17251
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-C10

<400> 17251

accggtccgg aattcccggg atccgcttgc ggcaaacct tgcgcgcaac aatggccgcc 60
tccctcccga ccaccgccgc gcgcctcggg gcggggcct tcgcctaccg gtcgcccaag 120
gctccctccg ccaccgccct cccgcgtgcc gccgccttcc ctgcaatcgc cgtcgcggcg 180
gcgccccctgc gcccgcgccg cgcgccgagg ccggtggcgg cccggggccgg gggcgaggag 240
cgggagacga tactgctccc cgggtgcgac tacaaccact ggctgatcgt catggagtcc 300
cccaaagacc ccgcgcccac ccgcgagcag atgatcgaca cctacctcaa cacactcgcc 360
accgtcctcg gcagcatgga agaagccaag aagaacatgt acgcattcag cagcaccacc 420
tacaccgggt 430

<210> 17252
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-C5

<400> 17252

taccgtccgg attcccgggt cgagccacgc gtccgggatt cttgaacctc tttcacgctc 60
atgtcacgctc gaggtactgc ggaaaaaag aggcgcaaaa tccgatccaa tttttcgtaa 120

tcgattagtt aacatggtgg ttaaccgtat tatgaaagac ggaaaaaaat cattggctta 180
tcaaattctc tatcgagccg tgaaaaagat tcaacaaaag acagaaacaa atccactatt 240
ggttttacgt caagcaatac gtagagtaac tcccaatata ggagtaaaaa caagacgtaa 300
taaaaaagga tcgacgcgga aagttccgat tgaaatagga tctaaacaag gaagagcact 360
tgccattcgt tggttattag aagcatccca aaagcgcccg ggtcgaaata tggctttcaa 420
attaagttcc gaattagtag 440

<210> 17253
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-C9

<400> 17253

gtatcactat caacagtgcga gaatttcctt agagttgcaa taattatata cccaatagct 60
caattgaagc aatttaagca acaaggacaa tggggagccg gacgtttcca taaccataat 120
aacaaggtta accttgata gtaagaattg aacctttgga tctaacaaca aacaacacat 180
ccacaggatg aggaaggatt tcaccttga ggccaatcct cacaccgcgg aaagttcctc 240
gacgtccctt ccccgccgt cgacaacgcc accgaacctg ggcacatcca ggccttcacc 300
gattccgtcg ggcataaa 318

<210> 17254
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-D10

<400> 17254

accggtccgg aattcccggg gcgagccacg cgtccgcaga attattcaag tggcaatcag 60
ggccctgtcc tgctacctgg ccttgtgcgg ctgcaggaga gtgacaaaac tggacaagat 120
tgtccatcta gtgatgacaa gccatctcac tcccagaaga gtgggtatga acacaatttt 180
gccgttcag tccatctacc gaattttgca atgatgccag ccgctcaacc tgctgtcagt 240
cagagtgaga agaagttaag tgaccaccag caccaccagc aacagcagca gccacaagtc 300

agccgaggcc agagtgtgag gattgatctt gcctcttctc agccttttgt gatgcccttt 360
ggctccattg gtcctgctgg atctacccca agtggctctg ac 402

<210> 17255
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-D12

<400> 17255

accgtccgga ttcccgggtc gacnacgct ccgcgaagct tcggattgcc gcgccgatgg 60
ccgagcccgg cccgcgcctt cctgtctctg tgtacgcgcg cagctcgccc cctcagctcg 120
tcgcgcgcct gggatgcttg ccggcgctca gctccaccgc gctgtgaagt ctctgcgcgc 180
aagctatctg ttggccgcgc acgaactcct ctgcttgccc cgtcgtcgtt ctccagctcc 240
ttaccgcact cgatcgtttc gtcgtctcgt cttaatgcc agtcccccacgt gacatctctg 300
acgtatgttc acgccgacaa aagaatccca agaaaatgta gagaagcaag cctttgggtcg 360
atgttcaagt ggtcgacgaa aggccagAAC aagaatcatc actgtttatg cggagttata 420
cttaatatga aaaga 435

<210> 17256
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-D9

<400> 17256

acatacaaaa accaggaacg cttgttatta actactaata cacaccagtg tattttcttat 60
ctaacagcgg ttttcttgca taatacttct atgtttcctc gtaacaaatg ctatatttct 120
aacctattaa cccgcagcgg gctgcactac agcaacactt gttttgtgtt gtgccgctgg 180
atctttccgt ccaccgttac accgtacctt accgcttctt agccctcctg caaaccttct 240
ggcagtgccg aacatgactg cctttgtcaa caaccc 276

<210> 17257
<211> 415

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-E10

 <400> 17257

 accggtccgg aattcccggg gggagccacg cgtccgcacg cgcgagtcac ctcacgcacg 60
 cccccagctc tctccttctc cctgctcggg cggtcgccat ggacgctccg agcagctgga 120
 agagtcctgc gcgcgccaag tgaccggaga agctgcgaga tcagagtagt tgcttgccgc 180
 tcccgtgcca ccaaattaga ttggacgtag ctagcagcta gctgagccgt agtgcgtagc 240
 ggcagctagg ctgctagctc gatcggtata gctgcgtact agtgggtgctg cagcagaagc 300
 agtagccagc ttcagtagcc gatccgggtg taaaagcaac tttttttgga catggcggcg 360
 gagggagccc cgggtgctggg gaggcattgct ggcggcgctgg aggagctgctg gcagc 415

<210> 17258
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-E7

 <400> 17258

 ttccctctca tctctctgac ctcgcttctc cctcccacc gtgccctgcc ttttcctgac 60
 gacctcgccg ccacgctcgc gtctcgccgc tgattgcggg ccccatgga accgtcgctc 120
 tctcaatccg tccgcgctc catcgtcttc ctgtatttgt gctgctgata tgtgtaactt 180
 gtgtttctcc aggtgaaggc ggccgagcac gcggccgaga tggaggcgac ggtggctgctc 240
 gcggctgccg tggaggccga ggaggaggag gctgctgctg ctgcggcttc gacgccgcag 300
 cggctctggga ggaaacggcc ccgcgcgatt gggagtgggc ggtaccgctc ggtgtccagg 360
 tgtttctccc aatctcccct gctttctctc tctgctgcc gcttttgctt ttaatcgctg 420
 tgacagcat 429

<210> 17259
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-E9

Sequence

<400> 17259
taccgtccgg attccccggtc gagccacgcg tccggtgtca ttgattcttg aagagatcga 60
gcttctttttg caccacaagg tcgaggaggt gttgcaactg cggatcaagc tgcggctgcg 120
gctcaagctg caagtgcggc aagaagtacc ctgacctgga ggagacgagc accgccgcgc 180
aggccaccgt cgtcctcggc gtggcccccg agaagaaggc cgcgcccagag ttcgtcgagg 240
ccgctgcgga gtccggcgaa ggccgccacg gctgcagctg cgggtggcaac tgcaagtgcg 300
accctgcaa cttgtgatca catcgatcga cgaccatgga tatgattatt atctatctaa 360
cttgtggtgg tg 372

<210> 17260
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F6

<400> 17260
taccggtccg gaattccccg gcttgtgaag aggcacgcaa cagagatttt cacatcaatt 60
gccatcgct cgacattctc tgggtactca actggtatca tagggcgctt gattgggcta 120
gagccatcgt taaccatatc aatactgcca aggtgtatta ctctggcgct ggctttgagc 180
atagtgtctt tctttgaagg tgtaaactct tcggtaactg ctgtcgtggt tgtccttacc 240
gggctcatcg gtgcgaactt tgtgctagca gccatggaga aacttggctt gaacgacccc 300
atctccagag gagtagggac agcttccagc gctcaaggac tgggaacagc agcactggcg 360
gccaaggaac ctgaagcgct ccctttctgc gccatcgctt atagtttcac ggggattttc 420
ggcacgctga tctgctcgg 439

<210> 17261
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F8

<400> 17261
cccacacata cgcggcatag caaatcacct ccattcctat tccaccctcc ttccaccggt 60

actcaactcg ctaccataca acatcccttc ccgctcccaa caatcccaac catacaaaca 120
cacacacact aaaccactgt cgccctctct atcatcataa tctctaacca ctacaaccac 180
caactccccg ctcaactctc acctcctttc ccctaccatg ctcatccatc ctacccttcc 240
cctaactccc attaccactc tacctctgaa ctaactcata tcaatacgaa taccacccgc 300
tactctcact cagagcactc tctcacctac tttctctact ccaccaactt gaaccactcg 360
ttctttcccc catccctcat cttccaccta gccacaagc tatgctcatc cactctcttc 420
ttcacactcc tct 433

<210> 17262
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G1

<400> 17262

tcccggtcg acccagcgt gcgcatactt gcacttagct gcaaagatgc caattattca 60
cagagatgtc aagtcgtcca gcatactcct agatgacaac ttcactgcca aggtgtccga 120
tttcggtgcc tcaaggccaa taccgcacaa ccagacccat gtgacaacat tgggtgaagg 180
gacactaggg tacatggacc ctgagtactt ccagacaagc caactgactg agaagagtga 240
tgtgtacagc tttggcgctg tactcatcga gctactgaca agaaagaagc ctatcatgga 300
tgatatcgcg gaagacatta gaagcctagc gcttcaattt agtatgctat tccatggaaa 360
taagctgttg gaaatcggtg at 382

<210> 17263
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G10

<400> 17263

accggtccgg aattccggag gggagccacg cgccgggag gaggatcgg accagctcac 60
ggcggtcgtc gcaccacacg ccgcccagcc ggccaccctc ttccggacag gcacgcttct 120
tgcgctcttt gtgctatgct actacggata acgtacgcc aaccacgcc ttccggcgga 180

gtccatttga ggctccctga ggcgcgttta cgccgacgcc gcgtcactgc ttccgcggca 240
gactgcgctt tcaattcaag ctctccgcta cattgcgacc cttcgccccca cgcgtaacctt 300
ctgggtccga gcgtccaacc cagtgggtca ctctcactga gtacatatcc aattacagag 360
aagggaagc cgatgtcttg agtctttcca agtgggcagt actaccgtga gct 413

<210> 17264
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G9

<400> 17264

accggtccgg aattcccggg ggtcatcctc ggcggtggcg ccgggaccag gctcttgccg 60
cttaccagac gcagggccaa gcccgcgggg ccgattggcg gcacgtacag gctcatcgac 120
gtgccgatga gcaactgcat aaacagcggg atcaacaagg tctacatcct cacgcagttc 180
aactcgcaat ccttcaatcg ccacctctcc agagcctacg atttcagcaa tggcgtggcc 240
atcggagacg gattcgtcga ggttctagca gcaaccaga ggcttgaac ggaagggaaa 300
aagtggtttc agagtactgc tgatgcaatt cggcagttcg actggctttt cgatgatgca 360
aaatctaaag acattgaaga tgtgctgatt ctttctgggtg accatcttta ccgtatggac 420
tacatggact ttgttcagag tcatcggcaa 450

<210> 17265
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H11

<400> 17265

accgtccgga ttcccggctg agcacgcgtc cgcggaacgcg tgggttgcat tgcattctca 60
ggagtgggta ctccatctca aggagggggt ccatggcgctc gctgatggcg cccatggcgg 120
gcgccttctt cctgctgatg aactcgagcg acttcttctt gtacctgagc acggccgtga 180
tcggcacgtg cacgggcgcc atcgcgtcag tggccgtgtc ggcgacgagc gagctgttcg 240
gggccgagaa cttcggcgctg aaccacaacg tgggtgtgag caaca 285

<210> 17266
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H4

<400> 17266

ccccgggtcga cccacgcgtg cgcctagttg ttggtttagt ttatgcatgg cgaaaaggag 60
ccttggaatg gtcttaactg aatattcagg gaaaaaaaaa aaaaagaagg aaaagattcc 120
attgagacaa ttatgagttt gattgagttt cgttactcg accaaacaag ttccaattcc 180
gttatttcaa ctacactaaa cgatctttca aattgggtcaa gactctcaag tttatggccc 240
cttctatatg gtaccagttg ttgtttcatt gaatttgctt cattaatagg ctcacgattc 300
gactttgatc gttatggatt ggtaccaaga tcaagtccta gacaagcgga cctaatttta 360
acagctggta cggtacaat gaaaatggct ccatctttag tgcgattata tgagcaaatg 420
cctgaaccga aatacgtc 438

<210> 17267
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-H6

<400> 17267

aattcccggg gcgagccacg cgtccgcggg cagccaccgc agacgatccc tagttccgcg 60
tccccgacct ggaccctcga gtgcgcacgg gctccggcca gattcgcgcg gtctaagctt 120
cgaatcggcg catggaggca gcagtagccg ccgcactcaa gtcgcccacc gccgcacgtc 180
cctcgtggcg gcccgcggcc ccggggcgcca cctcgtctcc ctttgaccgg aggcgagct 240
ttgccttcgg ctccatcaag ggtctcgggc ggcagcagct cacctctagg actaggaggc 300
gaagcagtgt ggtcagggcc tcttggtccc cctcggagtc tctgccaccg tctcgtcga 360
tggcgcgcgt caggatggaa tcgcccgcgg ngcagctact ctccagatt cttcacacgc 420
acccgcacct gc 432

<210> 17268
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H7

<400> 17268

taccggttcg gaattcccg cgaggagccac gcgtccgcgg gcagccaccg cagacgatcc 60
 ctagttccgc gtccccgacc ctgaccctct agtgggcacg ggctccggcc agattcgcg 120
 ggtctaagct tcgaatcggc gcatggaggc agcagtagcc gccgtactca agtcgcccac 180
 cgccgcacgt cctcgtggc ggcccgcgcc cccgggcgcc acctcgctcc cctttgaccg 240
 gaggcgcagc tttgccttcg gctccatcaa gggctcggg cggcagcagc tcacctctag 300
 gactaggaag cgaaacagtg tggtcagggc ctactggtcc ccctcggagt ctctgccacc 360
 gtctcgtcg atggcgccgc tcaggatgga atcgcccgcg gggcagctac tctcccagat 420
 tcttcacacg ccccc 435

<210> 17269
 <211> 449
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-A1

<400> 17269

tccgggttga accaagcctt ccggccaggc caggaattaa ggctttgcag gccccaaaag 60
 cgggtgggaaa agcagcgacc atggcctagg cgggtttgag atccgaggga acagatggat 120
 tactagggag tgacagctag gagcaatctg tggagatact atgtaaatgt cacaggagtt 180
 ggcctgtggt gatgtgcgat aaccgggcca gtgggttctg agcgtaagac gaggtctcta 240
 gcaatgatat gttgtagcgt gactaaatcg agatgagcaa tcaggttgtt gtctgttgat 300
 tctttcggct gaccatttcg gctgctgagg ccttgatcct gtatttgaga tgtcaggcct 360
 acttagagca aatgctggaa ggaagcaatg tgccgtgttct gaggtccctt cagcatcact 420
 tgtaattngt aaagtactca agtacagac 449

<210> 17270
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-A2

<400> 17270

cggggtcgaac caagccttcg gtcaaattcc ttctgggect tttctttttg gcccttttc 60
 ttccaaaact gcgattgggg caggaaccct tgaccacaat cgcaaccgca ggcacttcct 120
 tttccggaag ctcaagttag aaaaaccacc agtgctgac gatggcgcc aaggctctcc 180
 tttccggccg gcagctgctg ggccgccccg tgcagtcggc cgtctctagg tcgtcggcga 240
 ggaaggcgcc ctctgctgctc agggccagct ccagccctcc agccaagcaa ggtgcctaca 300
 ggcagctgtg gttcgcgtcc aagcagtccc tctctacct cgatggcacg ctgcccggcg 360
 actatggctt cgaccgctg ggcctctcgg acccgagggg caccgtgggc ttcacgcagc 420
 ccaatggctg gcctatggcg aggtgatcaa cg 452

<210> 17271
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-A7

<400> 17271

cgggtccgaa ttgccggctg gaccactcg tccgcgtga tatgcccttg agccacgcct 60
 tccttcttat cccctgcgcc tgcccgcgcc ggctgcatcg cccgtgcct cctttcccc 120
 ttccctccct cctctcccc gcgggcccgc agaggcaatt tcgccctcga ttcgaccct 180
 attcgtccgc ccgcgaccgg gattccctcc gccaaagcgc gatctgaacg ctgcgctccg 240
 tgtcgcgct cgaatccgcc atgaagggg ccaaatacaa gggcgccgcc aaggccgatg 300
 ccaagctggc ggtgaagagc aagggggcgc agaagccgc caagggcagg aaaggggaagg 360
 ccggcaagga cccaacaag cctaagagg ctaccagcgc tttcttcgtg ttcattgagg 420
 aatttcgcaa ggag 434

<210> 17272
 <211> 445

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-B1

 <400> 17272

 attccgggtt ggaccaacgc gtccgcccac gcgtccgcgc gaagtgcaca gaggggggga 60
 aggaaggaga caccacccag agggagtgc cgtctgcgag gaggaaggag aagaggctga 120
 ttcgatcgag cagcatggcg cggcggccac ggccgtgtgc ccacctgacg gccacgctcc 180
 ttctgctcgc cgtcgccgcg gcggtcgcca gagccgtcga cggcgacgag aagtgcggca 240
 gcccgtcggg gaacccctgc ggcgagccgt gcgtgtacgc gagcccgccg tcgtcgtcgg 300
 tctactacc gtcgtcgtcg tcgcccgtgt actcgccacc gtcgccgtcg gagtactacc 360
 cgccgacgac cccgaccccg accacgcctt actgcccgcg gtcgtcgtcg ggcggcggct 420
 acgagccgtc gcccgatac acgcc 445

<210> 17273
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-C1

 <400> 17273

caagccttcc gatctcctca acggcgatgg ccggtacccc catcaagggtg ggctccttcg 60
 gcaagggggg cgtgaccatg cgcaagaccg tgggcaagcc caagggtggcg gcgtacgtca 120
 gcccctgata cggtcactac cgaatcaggt tcctataaaa cgttctcggc gagccccga 180
 gctacctcac cggcgagttc cccggcgact acggctggga caccgncggg ctgtccgccg 240
 accccgagac cttcgccaag aaccgcgagc tggaggtgat ccactcccgc tgggccatgc 300
 tcggcgcgct cggctgcgtc ttccccgagc tgctctcccg caacggcgtc aagttcggcg 360
 aagccgtctg gttcaaggcc ggctcccaga tcttcagcga aggcgggctg gacta 415

<210> 17274
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-C12

<400> 17274

gcctcagatc atccaccata gctcgcgaat tccaaatttt ccccaaactcg accggaacac 60
cgccgtgagg catcgcgccg tgtccagccg ttctcagggtg atgaaactgc tgagctctgc 120
tgtttctgtt ccaagggtgt tcccaagcag gaggaggaaa actaaggctt acctgggaag 180
gtgtttttcc ttccagtgat gtaataataa gtttataccc gtatatgtaa taatcaactc 240
tttctatatt ttacttatga atgtgaacta tgttattgta aaaaaaacat caacaaggac 300
aaaataaaca tatg 314

<210> 17275

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-C8

<400> 17275

taccgggtccg gaattcccgg ggttgatcga ggtgagtgag gttgaaaagc acaccatcgt 60
catggacggc ggatactacg gcggtcgcga tcagggttac agcggcggtt actacggcgg 120
cggtggcatc gcaacgcccg ggtacgctcc ggcgggtccc tacgggatgt cgcaggtgaa 180
catcgagggc aacgggtgcg ggcgggcgct gccgccgcag ccgaccgtga aggtgtactg 240
ccgcgccaac cccaactacg ccatgagcgt ccgcgacggg aaggtggtgc tggcgccggc 300
gaaccccaag gacgagtacc agcactggat caaggacatg cgggtggagca cgagcatcaa 360
ggacgaggaa ggttaccggc cgttcgcgct ggtgaacaag gcgaccggtg aggccatcaa 420
gcactcgctg gggcagtcct acccggtgcg cctggtgccc tac 463

<210> 17276

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D2

<400> 17276

ccgggtcgaa ccaagccttc cgggggaacc caattgggaa tcaagatttc catatgctgg 60

tggcaaatcc tcgcaaacgg aagtggacca ttcaagtga ggattcaatt ggtctaactg 120
 acatcactat tggcaccgga gaggtggagc tagggtcact taaagataca gtacctacgg 180
 acaaaatcgt gactctatat ggaggatggg gtttgtttgg gaagcgagag gctggggaag 240
 ttctacttcg gctgacatac aaggcatatg tcgaggatga agaggaagaa gacgaggcgg 300
 tgagaagcga gattggtgcg ggttacgct cagacgagga tgtgctggac tacgttagtg 360
 gcatgagcaa ggggactgat ttcgtgggta aagaaaggga aactttcatg gatcttctcg 420
 ccgcgctgct ggtgagcgag gagttccaag gcata 455

<210> 17277
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D8

<400> 17277

gattcccggc tcgacccact cgcccgact ctggtactaa tatgacctat gattgccagg 60
 agaatacagg ctttattagt atagacagaa ctcatgctca ctgactacta ttgactcact 120
 gtagcgatcg gccaccgact taaacaaatg aactccatc ttgtaccaca tcacattcat 180
 cacctgatct aatactcacc tcatactcct acagctcaac tccatgctcg attgtctcag 240
 aatataccaa gtgtacatca acatcggtgt gccgtccaac cttccagaca tctacgatat 300
 acaaatatgc gaaccatta gcggatcctt actctacaac actatcattc tctgatctc 360
 acgcactatc tgcatacttg ttcgtcactc cggctacaag ctcttattc 409

<210> 17278
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-E10

<400> 17278

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 aggaggagga ggaggaatgg cggacgcagc cagaggccgg gggctcttcgt ctctcccgg 120
 ggctaacgtg caggcgcttg cggagtcttg caacgacaac ggagccgatg cgccggtgcc 180

cgggaggtac ctcatcaagg atcctagcgc cgaggaggtc gtagccgccg gcgacagcgc 240
 ctgcgcgatt ccggtcatcg atttccgcaa gctgctcgat ccgggggtcgt ccgaggagga 300
 gtgcgccagg ctgggagccg cgtgccacca ctggggattc ttccagctca tcaaccatgg 360
 cgttccggcc gaggtgactg ggaacctgat gaaggacgta gctgggttct tcaggcagcc 420
 gctggaagcc aagaaggagt gcgcgc 446

<210> 17279
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-E3

<400> 17279

ccgggtcgaa ccaagccttc caacacgtcc aacaaggtcc ttcttggtca acaatctcgt 60
 accggcgggc cacatggcgg ggcagggccc ggcggttacg ccagcgaagg ttaccccaaa 120
 gaaggccaat ctctcgacc cgcactccat caagcacctt ctgcagaga ccatctccga 180
 ggtcgtgaag agtaagggt acaccgagga cacgcggctg ggcaactgga agctggggat 240
 cggagccgcc gtgattgctg tcgcctcct cgctcagttt taccccaaga agttcccga 300
 gaaccgcgat ttctccttg gctgcacgc cctgtatgtg gtgctgaatg tgggtgctgt 360
 gatccttagc tacaccaagg agaaggatgc catcctattc acgcacctn ctatgggttc 420
 tttcagcagc actggcctca ctatttcttc taaata 456

<210> 17280
 <211> 392
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-E5

<400> 17280

ccttgatgct tgctgctgat ccgtcgctc gcctcgatgc tggctcctac atgacgtctc 60
 gaacttggtt ttactactaa aatccgagaa gattaggcgt agaaggaaaa aaatcagtac 120
 gcagccggaa aattcttgat gtggatcgag aaggcagtga agtccgtgtg gtgctcacca 180

cgtgctcgac gtaatggcga aattggaaat cgtagttgtg ctctgggctg tcaagacgga 240
 ttaaattatt agtgagctgt cgtegetctc gctcttcgtt ttaatatctc tcatcagttt 300
 agtatacttg cgggtgttaat gtggaccgat gatgtgctcg taaatcgcac tagtgacact 360
 acaaganact gataaaaaaa aaaaaacata tt 392

<210> 17281
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-E9

<400> 17281

tccggaattc ccgggtcgac ccacgcgccg gtgtttggag tgccccagcc aggggtgttac 60
 aggggtttatt acatcattaa taatattcaa gagttagtaa ccgctctgac ccaagagcat 120
 ccgggtggtgc tgatgttctg ggcggactgg aaccagccaa gcaaggccac gtactgggat 180
 ctggccatcg ctaaaaagga tgaggccgta ttctgccagc tggactttga taagttaaa 240
 gatgtcgtag agaagttcag agtgaaggct ctgccgacgt tcctcctgat caaggagggc 300
 gaggagcagc gcatggtcgt cggtgccaag gtgcaggagc tcaacatggc attatcagat 360
 atcggataat ctaggcagct atagcgtca cattctaact tcatcaaatt attctaataa 420
 attaataagc tggaaataag tctt 444

<210> 17282
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F12

<400> 17282

gggtgggggtt tttttttttt tttttttaa attgcagacg aaaaaaagga aaaagaagga 60
 gtagagaagg agcaaaaaac acgggaaaac gataggagta attaacttac acgcacgccc 120
 acgtacgggc ccaggggccg aataaaaatc aag 153

<210> 17283
 <211> 424
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F2

<400> 17283

gggtggccta ttcttcccc tccggttcgg gttcgggttc gagaggttct ccgggggttcg 60

gtttcgtgga tgaggggagg gagatggcgg cgtcggatgc tgagtacacg atgctttgtc 120

ggcggactaa actgggccac ggactaccac ttcttacact acgccttgat cacctacgtg 180

caggtactcg agtacaagat catactgaat cgggagacgc atagggttcac gagcttgtgc 240

tgtcgttaact tctacacaga tgaggcaatg cggaacgcca tctagggcat gaactgctag 300

gagctggact gccgcaacat taccgtctac gaggccacat ccctgtgcag acgtggatgc 360

gcaagcagca gcagatacgg tgggtggcgt ggacgctgca gctacagctg tggctggcgc 420

cgtg 424

<210> 17284

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F4

<400> 17284

tccggaattc ccgggagctt caacctccat atttgttgta ccggaacgct tcacaagaag 60

tcaatggaat ttggttttac aaccaacggg actgtgaagc tgttgcaagt ctatttggaa 120

ggatactgaa tgcttacgcc aaagtacctc caaaacctaa agtgccttcc aaaaaagtg 180

agtttgagga actggaggct gttcctacat ctgctgctat agacggcccc cttgaacctc 240

cgccagcgtc tgccgctgta gtccttgata ccctgatga atcattaatc ag 292

<210> 17285

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G1

<400> 17285

tccgggtcga cccaagcctt ccggtggcctt cttcttcccc ttccggttcg gtttcggggtt 60

cttgagggttc tccgggggttg ggttgcggtg gtgaacggat cgagatggcg gcgtcggatg 120
 ttgagtaccg ctgcttcgtc ggcggcctcg cctggggccac ggacgaccac tcccttcaca 180
 acgccttcag cacctacggc gaggtcctcg agtccaagat catcctcgat cgggagacgc 240
 agaggtcccg cggcttcggc ttcgtcacct tctccacgga ggaggcgatg cggaacgccca 300
 tcgagggcat gaacggcaag gagctggacg gccgcaacat caccgtcaac gaggcccagt 360
 cccgcggcgg ccgtggaggc ggcgggcggcg gcgggtacgg tgggt 404

<210> 17286
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G10

<400> 17286
 gacgcctgat cggaaagcaa cgtcgttgcc ccgccccccc acctcgtcac gagtcagaga 60
 gctacacaac aaccatcctg ttcccgcccg catacaggac tctagctagc tagctagcgt 120
 tgttcggtt tggttgcctc cgctcgctct cgttcggctg atcatggagt ggagggacag 180
 cttcttggac ctggcgctca tcccgcctcag cctgctcctg cccatggcgt accacgcctg 240
 gctgtggcgc gaggtccgtc tccgaccgct gcgcacggcc gtcggcatca acgccgccac 300
 gcgccgacta tggggccatcg gcatgatgaa ggacaacgcc aagaacgcgg tgacggtggt 360
 gcaatcgggtg cggaacgtca tcatggggtc gacgctgatg gccacgacgg cgatc 415

<210> 17287
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G12

<400> 17287
 gaattccagg ctcgagccac tcatccgata cacttaatac aatcctaaca actttaacat 60
 tataactaatt attcccaggt acgagtactc atacatactg agcaacagcc tcaatatacc 120
 acaccaatca ctacaaacat ccattcattat ccattcaacc tctgacattc atacataaaa 180
 ctctcatcgt tataactaaac tccttatatc ctaaacctcc ttattcacat atctccacga 240

tccattctct ccaagtaaat attctccaat cctttaatct tataccttct tactccaaca 300
 ctgactacca ctattataaa aattacacag aactacctca gtgccattaa catctcc 357

<210> 17288
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G5

<400> 17288

taccggtccg gaattcccgg gctcttccac gtccttccgg gtcctatcgc tcctctccgt 60
 cgccggtgga gctcatggca tcctccatgg ccggcgccgc caccgccacc gccctcccgc 120
 tgccgtccgg gacgacgcag aggccgtctg cccagggccg cctcctcttc accgccgcgc 180
 ccgcccgtct cctccgcctc cgccccgccg gccgccggtc ggcccgtctc tcgctccggg 240
 ccaccaaggc tgtggtggca gcgttggctg atcctctcaa ggtcatgata tcaggagctc 300
 cggcgtccgg caagggcaca cagtgcgagc tcatcaagac caaatatcaa ctggcgcaca 360
 tctccgccgg agatttggtg cgggcggaga tcgctgctgg ctctgagaat gggaagcggg 420
 ccaaggaatt catggagaag ggccagctcg tgcctgatga g 461

<210> 17289
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-H6

<400> 17289

cggtcgggaa ttcccgggca agttagaaga agcaccagtg cctgatcgat ggcgggccag 60
 gctctcctct ccggccggca gctgctgggc cgccccgtgc agtcggccgt ctctaggtcg 120
 tcggcgagga aggcgcctt cgtcgtcagg gccagctcca gccctccagc caagcaaggt 180
 gccgacaggc agctgtggtt cgcgtccaag cagtccctct cctacctcga tggcacgctg 240
 cccggcgact atggcttcga cccgctgggc ctctcggacc cggagggcac cgggggcttc 300
 atcgagccca agtggctggc ctacggcgag gtgatcaacg gccgctacgc catgctgggc 360
 gcggtgggcy ccatcgcccc ggagatcttc ggcaagatgg gcatcatccc gccggagacc 420

gcgct

425

<210> 17290
<211> 228
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-047-Q1-K1-H9

<400> 17290

taccgggtccg gaattccccg gtttgatatgt gctgcccgtg cctgcaatgt cagctctacc 60
gggtcccgcg ttcgctgggc aagccggtga aggggcttgg cctgagcatg ggccgcgagc 120
gcgcccagcg gagcattgtg tgccaggcgg cgagcagcat ctccgncgac cgcgttctcg 180
acatggagaa gcggaagctg atgaacctcc tgctgctcgc gccatctc 228

<210> 17291
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A1

<400> 17291

cggaattccc ggctcgaccc tcgtggacgg cgatgcacta cactacacta caccacaccc 60
acccgacgac gatcacacac gcagaagagc gagttcgttc gatcgtgacc gtgacgcaag 120
aagctataag ctagccaaga caggaataat aatggcgggc tcaacggggg cgagcctact 180
ctgtcccgtg gacgacgacg accttcgagg cggcgggcggc agcggggcggc gccgacgtgc 240
tgatcgtcgt gccgaggaag gcggtcgtg cgcgcgttat ggttccccgt ggctgatcgc 300
cagggcagat gcagcacact ggcggtagcc gcgcgggtcca tcaggccggt caccgagct 360
gagatctgcg acaagggcgt ggacagcctg aaccaggccg atgaaaccag ctcagacg 418

<210> 17292
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A3

<400> 17292

ggaattcccg gctcgaccca cgcgttcgat gatattggtc taacacgtgc caattaatgg 60
 ggcattgttc ttgggaaact aagcggatgg catgctgtga gatctaagct agtagagcta 120
 ggatatgaaa tccgtgacaa ggaatttgag gacttctttc agctctacac agaggttgca 180
 gagacgaaaa agcgcgtgac ctgtgaagac ttagaagcga tattgtctga tgagatattc 240
 cagcctaagg ttatgtggtg cccttgctga tgtacaggcg acatgtgata cacttgctgt 300
 atgtacggca acagtgaaat tgatagcacc agacggagag gcgaaaatag catgttcaga 360
 cggaacatgt ccagtcgatg catcttacia agctgttgac aaaatcatcc agattccaac 420
 cgctctgcga gaatacagga tgacatcagt 450

<210> 17293
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-A8
 <400> 17293

cccggctcga cccacgcgtg cggtgttttc catcacctcc tccccgcctt aaggggacat 60
 cgctgccgat tcccaccggc tatctaccgc ccatcagagc ccataactcg cccaacctga 120
 aatccttcac ctactcagc ctgaatacct catctcacct ccaccactcc tcacacgcct 180
 tgtacttcgt cgacctaac gcaccttcc aatgacagg cgctagcgaa gccgcgcata 240
 ctccctgcat cttcaccgct cgtcaccta accgagccct tccaacgacg aagtcgctac 300
 caaacgccg ctcatctcc tcacatcttc ctgctctg cgccgc 346

<210> 17294
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-A9
 <400> 17294

cggaattccc ggctcgagcc acgcgccgc gtgcgggacg tcaggaactt ccaggtcctc 60
 atagagatgt acaacgagtg gccattgttc agggtcaccc tggacctgct ggagatgggt 120

ttcgccaagg gagaccccggt cattgccggc ttgtatgacg agctgcttgt ggcggaagaa 180
ctcaagccct ttgggaagca gctcagggac aaatacgtgg agacacagca gcttctcctc 240
cagatcgctg ggcacaagga tattcttgaa ggcgatccat tcctgaagca ngggctggtg 300
ctgcgcaacc cctacatcac caccctgaac gtgttccagg cctacacgct gaagcggata 360
aggaacccca acttcaaggt gacgccccag cgcacgtgtt ccaaggagtt cgccgacgag 420
aacaagcccg nccgactggt caagctgaac ccgc 454

<210> 17295
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-D10

<400> 17295

taccggttcg gaattcccggt ctggaccacac gcgtccgaag tcacacacca accaaccaac 60
ctgttttgac tgccgatcct actgatgggg gcggggggcac ctgcaagtgc tacaggagga 120
cattcgcttc cattactgag actgccgacg atcacatgaa ccagtagcgg aggcttagat 180
tgcccacgac cgcaataaat ttcccgcatg gtcgttacgg ccgcgtcctc gtcgtctctc 240
cgctgcctcc tgacgagggc cccctgccggc gcgcgcgccg atgtccccta tgcgctgcgc 300
aagacagtgc ctgcagatgg gatgcacagg ctgttgccag gtgtccttca cagggtcagc 360
actgcagcag cagtagagga gcccatcacg ccgtcaagac atgtgaacta cacaagctg 420
ctcattaatg gca 433

<210> 17296
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-E8

<400> 17296

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ttacagtatt acacagtaac aaaaaagaaa aaaatatatc atatacaagg agactaaatt 120
caactgcaaa tatatacaat atgtctatgt ttgtatctgt tattttttcca gaaacaccag 180

ccttctccat atacagacat tcccttccat acacaagcta cagactctac agtcctggaa 240
 aaaaaacggt gcccagccac ccaggagaaa atcacaaact catgatcaga tatacaggaa 300
 aggacagtca tgatctaaag ctaaatacctt gcaaagaaac atgatggatt ccatgtacag 360
 acctcttcgt atgtgtcgcc actaactata ctct 394

<210> 17297
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-F12
 <400> 17297

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 ctcaatattg cgcctcctgg atctgggtgc tctttttaca cgcgctgcta cggcctacca 120
 attttgtcca caagtgtgc acacagctcc tactcctctc tttcttgacg ccgtaccttt 180
 taccacctgt cagctcagta tgcgaaaacc cactctttca accctatatg ctccaacacg 240
 gaatcctact tggcctccta gctttatcac ccttgggtct tgaacattca ttatccctac 300
 aacagccatt accttagacg catttattgg cgcagaacat aagggtcaa cagctgccac 360
 aactcgtgct agcacacctt gctgcct 387

<210> 17298
 <211> 190
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-G12
 <400> 17298

cggctcgagc cacgcgtccg gaggcataagg aagttcactg aaactgttta acttttagatt 60
 ggtctgaaca actatgggcc acagaatgtc atgcgtcctt atgcttcttg ctatttgtac 120
 atatattgct aacgcaacaa taatgcctgc atgtccacaa gctcctatca cttccattat 180
 tcccccatatc 190

<210> 17299
 <211> 363
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-G9

<400> 17299

ccggttcgga attcgcggt cgacgccacg cgtgcgctg ttcagacaca ggtggcgacg 60

gttgttcgga gaatgaagac gaagtaggga agaggatgca cctacatgcc tgcgacaaca 120

atggctgcaa cagattgtgc cagctctgac tcatctagct atggcatacc ctgcttgcta 180

ctttcaacag ctgcttgcat ttaaccaact gactgggtcg cactgtgatg ggtgcctgca 240

actgtgactt ccgagactta ttacactagc tgtgcctaac ccatgggaca ctgaatttct 300

acagcagcaa catattgcta ccatacagac agttctcttt gatgaaccct ggcttgccgt 360

ggc 363

<210> 17300

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-H10

<400> 17300

cagcagtgcg acaagcaaga ttaccttcc catttatcat atcgtcaact ggtccgggag 60

ttggcgacac catgagctcc acggagtgcg gcggcgggcg cgggcgggcg aagacgtcgt 120

ggcctgaggt ggtcgggctg agcgtggagg acgccaagaa ggtgatcctc aaggacaagc 180

cggacgccga catcgtggtg ctgccgctcg gctccgtggt gaccgcggat tatcgcccta 240

accgtgtccg catcttcgtc gacatcgtcg ccagacgcc ccacatcggc tgataatata 300

taagctagcc gctatttctt ttccttgccc cagaacttga aataaatata tatacgatga 360

aataacgcgg gcatgccgaa t 381

<210> 17301

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-H11

<400> 17301

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 tttctccgag tgatttgccg tgagcgggca gtgcatccag agcgagcgga gctgagctga 120
 gctgagctga gcgagcttgc gttgcttgag agaccctgct gccatggctt cccaccagga 180
 caaggctagc taccaggccg gcgagaccaa ggcccgcacc gaggagaaga cggggcaggc 240
 ggtggggggcg accaaggaca cggcgcagca cgccaaggac cgggcggcgg acgcggcggg 300
 gcacgcggcg ggcaagggcc aggacgcaa ggaggccacc aagcagaagg cgttcgacac 360
 cggcggctac ctgggaaaga agaccgacga ggccaagcac aaggccggcg agacgacgga 420
 tgccaccaag cagaaggcca gcgagacg 448

<210> 17302
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-H2
 <400> 17302

gttggtttttt cttttttttt ttttggttct tttttttttt ttttggtttt ttttttttaa 60
 atgaatgttg atgccggatg cctaaccaa tgggcaacct ttttatagat catcccttaa 120
 cttagctttt ctacatccca cattttgcag ctacttttcc ataacccttt acattcctag 180
 ggccaatttc ctttggggtc aaatttccat gagggactag tgtactgttg gcccccaat 240
 tatccattcc tttacattaa ggggcaatac ctttgaaaaa cggaaataag gcttttcttc 300
 aaaatgccta tgcccaaaga gcttataccc acctagaagc cgatccaagc cccaaggcaa 360
 tgtaacacgc cttttt 376

<210> 17303
 <211> 116
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-A10
 <400> 17303

aaagcctata cacgtgtcat cataacgttc attagactct aagtagcata taatacatct 60
 cttactatct taaagtcact acttcaataa atcttacaca aaaaattgtc actgca 116

<210> 17304
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-A2

 <400> 17304

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 ccgggggcttt tcggccatgg tcctacatat tgcaccattg atatacgcac gttcgaccat 120
 agcttgacca ctatctccgt cacctcctac acaccttaca actttgacaa tctgggtcaag 180
 tctctcatat ttgtcaccaa caaacctact tacgtaccgt acgatctata cgacgccacc 240
 ccgtcctacc tcaacgtaat taacaacgac cacgtcgatg catattaaga tca 293

<210> 17305
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-A3

 <400> 17305

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 catcttctcc gcgcggagct tgcttctcgc gtctgccgct cgtctccatc tctccatctc 120
 ccagcagacc gcgcccagct ccagccatga gcgccgacgt cctctctctg tgcttgatct 180
 cccagtcctc cgctccctga aaccttcacc cacatgtttg tgaagggtccg gtagtggaga 240
 tcttgcgagg tccactgctc tgcgctccta ttccacctgt ctcacccct catcatgctc 300
 gacacttgct ccctggcagc atgccgtagc agcatctgtg cttgggtccat gtcacctgt 360
 gccgtgcctg ttctctgcac gcgtcaagct cacgcgctga atccagcccc atgttgacgc 420
 gttcatgttc caacttgctg tgccgcgctg tcatcacttt ctgtcacgag 470

<210> 17306
 <211> 472
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-A6

<400> 17306

tcccgggtcg acgcacgcgt ccgccttgat gctgaagcct ctggtttatt gtcaccctct 60

aaaggcggac aataaacctg gggatacaaa tactaggagc cttgatgctg aagcctctga 120

accttctcca aagcgtagaa gagaatccag tatagaatca gagaggacta agagtatgga 180

tgtggaagag ccgtcggcaa gtcgaatgag ggattcaaca gttgctgcat ctactgagaa 240

aaatgctgct gatgtttcat cacatgctaa agagatccca caaaacattc agccagcaaa 300

ggttactgat gatcactaca agagaagtga tggcgcactt gctgctgcta gagcgcgagc 360

actggcccga aagaaaagcg aagaccagca attgtgaagt acaaggcaga aaagtttacc 420

gaccccttgag gtacaatntc atgttntatt caataggatc gtgntaagat gt 472

<210> 17307

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-A7

<400> 17307

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ttccctcccg gtatctctcg ccggggccag ggcagagcca ccgtgagatc tgcccgattc 120

cgccgcccgg acccggggac tccctccct cctcgatccg ttcgggcggc cggccggcct 180

agcttcaagt gcgggggatgg tgttctactt caaggcgcgg cccgaggccg gcgactacac 240

catcttcatg ggtcttgaca agtacgagaa cgaggacctc atcaaatacg gcttccccga 300

ggacatctgg ttccatgtag ataagatgtc ctctgcacat gtgtatgtga gattgaataa 360

aggatcaatca atggatgaca tgagtgaagg tttgctggaa gactgtgctc agcttgtcaa 420

agctaattcc attcaaggta ataaagtcaa taacattgat g 461

<210> 17308

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-A9

<400> 17308

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 gggacaaaga ggtacgatgg ggattctggg ggcgagcgtg agattcagag aaccatgttg 120
 gagttgttaa atcagctgga tggttttgat tcaagaggag atgttaaagt tattctagca 180
 acaaatcgta ttgagagtct tgatccagcc ttgcttcgcc caggtcgaat tgacagaaag 240
 attgaattcc ctttacctga tgtcaagact aggcggcgca tcttcagat acacacatcg 300
 aaaatgacac tggctgatga tgtaaaccta gaagagttaa ttatgtcaaa agatgagt 358

<210> 17309

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B10

<400> 17309

cccgggtcga cgcacgcgtc cgcccaggtt ttatcctagc aacaggattt ggtgcatcac 60
 tgtatttcct ggcaaagaaa gatatgaact taggtaaggc tgcattgac actgtcgggg 120
 gacttgacgc tggtgcaact gtcggatctg cagtggaaaa tttcctgcag gttgatatcg 180
 tgccctttct aggcattccac tccccgcgcg tcgttgtcag tgaatttatt ctgttctccc 240
 agttgttggg atcactgttt gttaggtagg atctgaaatc aagctgtcat cctgatcatg 300
 gcatgtaagt aactgaaatg gttcgtgttc aaacttcaaa gggtcaggga aatgcttatt 360
 ttccgctcaa ggtgcaagca gctgtgtata gcaaacaata catggacatc tctgtccctt 420
 ataaagatca cttgtatcta gttctctc 448

<210> 17310

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B12

<400> 17310

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 ctgtgcggcc tgtgttctgc ggccgctct ggtgcacatc tccccgccgc cgccccgtcg 120
 tctgccgaca cctttagcgc tgggaaggat cacaggggat cggcgcgagg cgggggacct 180

gcgggtttttg tgcgccggat ggccggcggag cgatgacact ggcgtcggga gcggcgcggc 240
gttgggatgc ggacgatctg cgatgtgtgc gagagcgac cggcggtgct cttctgtgcg 300
gccgacgagg cagcgctttg ccggccctgc gacgagaagg tacacatgtg taacaagctt 360
gctagtcggc atgtgagagt tggacttgca gaccctaata aacttgccg gtgtgatata 420
tgtgaaaatt caccgcgttt cttctactgt gagatag 457

<210> 17311
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B6

<400> 17311

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cactggaagc tcgggattac gtaggaaagg ggccggcggc atgaggatcc agtgcgacgc 120
gtgcgaggcc gcggcgccca cgggtggtgtg ctgcgccgac gaggcggcgc tgtgcgcgcg 180
ctgcgacgtg gagatccacg ccgccaacaa gctcgccagc aagcaccagc ggctcccgtc 240
cggcgacgcc gcggcgctcc ccgccagcct cccgcgctgc gacgtgtgcc aggagaggcc 300
ggccttcac tttctgcgtc aggacagggc gctcctctgc cgcgactgcg acgagcccat 360
ccacgtcccc ggcaacgtct ccggcaacca ccagcgctac ctgcgccacg gcacccgcgt 420
cggcttcagc tccgtctgcg gcgccagcg 449

<210> 17312
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B9

<400> 17312

cccgggtcga cgcacgcgtc cggttgtaac accgccgcc atgcccgctc ctcgatggcc 60
cttccccacc aggccacgac ggtctccgtg gaggcgcct ttgcgttctg ctgagagtag 120
gtccacaccg acggggggcg ctccaccttc cgcttccccg gcttctactc ctccgcgtcc 180
tcctcggtcc ttgccaccgt cgcgtcgccg cctcagcaat ccaatgtccc cgatgaggcg 240

ctgaagggttt cgaaccagct gcctcgcata acatcaatag aaggggactg atgggggagct 300
caccagtgtg gccctgtttg gcg 323

<210> 17313
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-C10

<400> 17313

cccggtcga cgcacgcgtc cggccttccc caccaaaccg gagcacttcg gagggccggac 60
ccggcgagaa gcgaccgacc gcagccagct cacgtctccc tcttcatcca ccatgctgag 120
ggtcgcgggc aggcgcctct cgtccgctct cgcctggcgc cccgccgccg ccgcctcagg 180
ctcccggggc cctctcgccg gtacactacc cggccgcgac gacgacgaca cacgcgactg 240
cagggcgcgt ttccgcatcg aatctccctt cttcgccgct gccagagggg tttcagcaga 300
gactcttgct ccaagaaacc aggatgtggg cttatctgag ctcccagcaa ctgtggcagc 360
tgtgaagaat ccaagtggaa aaatcgtgta tgatgagtat aaccatgagc gctacccacc 420
tggagacccc agcaagcgtg catttgcta c 451

<210> 17314
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-049-Q1-K1-C11

<400> 17314

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agatagctat agctagcata gcaggccagc cagtcagcga cttagcagca gctagctagc 120
catgctgccg tcttctgtgt cggcgacggc gagcgccgcg gcctcgtga cgcctccgcc 180
gcggccgata ccaggcagct acggggccacc ggtgctgggc ccgctacggg accggctcga 240
ctacttctgg ttccagagcc aggacgagtt cttccggaag cgcgcggcgg cacaccgcag 300
caccgtgttc cgcaccaaca tcccgccac cttccccttc ttcgtgggcg tggacccgcg 360

cgtggtcgcc atcgtggacg ccgncgactt caccgcgctc ttcgaccgg acctcgtgga 420
 caagcgcgac atcctcatcg ggccctatta ccccgggcg 459

<210> 17315
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-C12
 <400> 17315

cccggtcga cgcacgcgtc cgaattaatc gcgcgatgcy gaagaagagc caagtcgatc 60
 tcaagcgcgg gctaataccgc aggatgatgc tgatggacga accggaagat ggataatctg 120
 aacaatgcc aacaaaagg ctgatcgta agtggtcgtc gtctaacaac actaacctag 180
 tgttaccag gttctaactt tgtgctgttg ttgatgggtg taagtgccgg tgggctcggc 240
 cttcttataa gtctaagtaa ctcttctata cttcttattg agaatgttca cttgagctag 300
 catatatttc aaaactataa aataattatt ataagttaaa ggtaatcctt tgaaccactt 360
 ctgtaaccac tccgataaat ctaatgtaaa acttgatgta acttgtaaaa tttggtaaaa 420
 agatttccgc tgcaaaatgt tngtgtgtga 450

<210> 17316
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-C8
 <400> 17316

gtcgacgcac gcgtccgatt ttctcaatac cttaagcaag gaccaatgtc tcaagcccag 60
 cccctcgtt cccaagccca gtggaaacac gttaaatttc aggataacca agctaagcc 120
 atgaaggaac caggaaccgg tgggtatggc tatgggacga aaaatgacaa gaataaggat 180
 gtggatacaa tagcttcgga cttcatcaag ctgaagcaca aggcttgggc actccagaag 240
 agcacaacca tgtaccaacc ttctacctaa aggtgtcaat agttcaagaa gttgatacta 300
 tatacttatg cttgtctctg tatagtctat aagtcctaata tcaaataaca ggtgctgctt 360
 gcagccttgg atatttgcg atccggagtg aagttaccat ggcacgttg ctaagattaa 420

gaaagtaatg tggttatgag gagatgtgta attttgt

457

<210> 17317

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-C9

<400> 17317

cccgggtcga cgcacgcgtc cgttatgggc cactctccat aaattcggtg aaccagttat 60

gatgcattgg cctggcagca gattgaggga gaaagctctg gaaacagtca tgcaacatgt 120

tcattatgaa gatgagaaca ctcgttatat ttgcattggc cctgtaaaca aggtattgaa 180

tatgcttgct tgctggattg aagatccaaa ctcgagggcc ttcaaacttc atatcccacg 240

agtctatgat tacttgtggc ttgctgaaga tggcatgaag atgcanggtt ataatggcag 300

ccaactttgg gatacagctt tcacagttca agccattgtg gctaccaacc ttattgaaga 360

gtttggctct acccttaaac tagcacacaa ctatatcaag aattcacagg ttcttgatga 420

ctgccctggg gatctgaatg actggtaccg ncaca 455

<210> 17318

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D10

<400> 17318

cccgggtcga cgcacgcgtc cgcggacgcg tgggcttttg taggctatat tgcaagcttt 60

ttcctcacta cagagatctg gtgaggagat tgcgttggtta gagtcgtatg cttcagttaa 120

gtcgaatatg gttttgggtc aacagaaaaa ccaatcaagg aaaagacgtt tttcacgttc 180

tagtgatgat accgacaatt cagatctacc atgtcctcaa tgccgtaatg aatttggtgg 240

atttagatgc agcccaggat ctgtgcactt gcaatgcagt ggatgtggag gaatgatgcc 300

agccagatct aacatcagta taccacaaaa atgcttgggg tgtgataaag cgttttgtgg 360

ggcttattgg tattcgcaag gtgtgagttc aagtcattgc aatctgatct gcaaccagga 420

tactttgaag agtattttatc agcgacatat ctctgc

456

<210> 17319

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D11

<400> 17319

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atgctcctat cggagctatg gcagggtgct ataggcttgg gtggaggcac gggctgcttg 120

acgagggttta caaggcccg c gatgttggtg ttaatagttt cgttctcttt cctaaagtcc 180

ccgatgcatt gaagtctcca acaggagatg aagcgtacaa cgataatggt ctgggtccac 240

gtacaatccg cttgctcaag gacaagttcc ctgatattgt tatctacaca gacgtcgcgt 300

tagaccctta ttcattctgat ggtcatgatg gtattgtgag ggaagatggt gtaattatga 360

atgatgaaac agttttatcag ttgtgcaaac aggctgtttc acaggctcgt gccgggtgctg 420

atgttgtcag ccctagtgac atgatggat 449

<210> 17320

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-D12

<400> 17320

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caccccgct tgctcgcagg ctccccaaaa cgcggagccc tagccctagc cctagctctc 120

ccacaccgc actgggagat ggacggcggc ggcacgcacc gcacgccgga agacgtgttc 180

cgggatttcc gcgcgcggcg ggctggatg atcaaagcgc tcaccaccga cgtggagaag 240

ttctaccagc agtgtgaccc agagaaagag aatctgtgtt tgtatggtct tcccaatgaa 300

acatgggaag tgaacttgcc tgcagaggag gttcctgctg aacttccaaa gccagctct 360

ggaattaatt ctgctcgtga cgggatggat gaaaaagatt ggctgtcact agtcgcgggtg 420

cacagtgatg ctnggttgct ggctgtggcc ttttactt 458

<210> 17321
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D3

<400> 17321

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 ctggcgagaa gggcgggggc aagtccgggg agccgctcca ctacaagggc tgcaccttcc 120
 accgcgtcat ccccgagttc atgtgccagg gcggcgactt caccgcgggc aacggcaccg 180
 gggcgagtc catctaccgc gagaagttcc ccgacgagaa gttcgtgccc aagcaacaac 240
 ggccccctg tgctctccat ggccaacgcc gggccaaaca ccaacggctc ccagtccttc 300
 atctgcaacc gtgcgaacc cttgcttcga cggcaagcac gtcgtcttcg gccaggctcg 360
 cgagggcatg gacgtcgtca aggccatcga gaaggtgggc acccgcaacg gc 412

<210> 17322
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D9

<400> 17322

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 ggttcgtgag gttctccggg gttcggtttc gtgggtgagc ggatcgagat ggcggcgtcg 120
 gatgttgagt accgctgctt cgtcggcggc ctgcctggg ccacggacga cactccctc 180
 cacaacgcct tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag 240
 acgcagaggt cccgcggctt cggcttcgtc accttctcca cggaggaggc gatgcggaac 300
 gccatcgagg gcatgaacgg caaggagctg gacggccgca acatcacct caacgaggcc 360
 cagtcccgcg gcggccgtgg aggcggcggc ggcggcgggt acggtggtgg ccgtggaggc 420
 ggcggctacg gcggtggcgg gcgccgtgat ggcggcggc 459

<210> 17323
 <211> 460

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-E11

 <400> 17323

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 cacttcggtc tcagcgacgg gcgccaccac cgctcccctc cgtctccccc tcttcgcccc 120
 gcggcaatta ccacagcctc cccagcaagc cgggatggct gcactcaagg catcggtccg 180
 gggtgagctc agcgccgctt ccttctctga ctccagcagg ggacctctcg tccagcacia 240
 agtggatttt acgtttcaaa ggaagggcaa acgagctatt tcaactgagaa ggacatgctg 300
 ttctatgcaa caggctccac caccagcatg gcctgngcga gctgttgctg agcctggccg 360
 gaggtcatgg gatggcccaa agcctatctc gattgttggt tcaactgggt ccataggaac 420
 acagacattg gacattgttg cggagaatcc tgataagttc 460

<210> 17324
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-E12

 <400> 17324

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 acagtttggt gagaaggact gcaaacttgc tgacacagtt attaggggtt tacttaaata 120
 ttggcctgtg acgaacagtt caaaggaggt gatgttcttg ggtgagttag aggaggtttt 180
 agaggcaaca cagcttgcag agttccaaag atgcatgggt ccactcttcc gtcagattag 240
 ccgtagcatg aacagctttc atttccaggt ggcagagcgg gctctgtttc tctggaacia 300
 tgaccatatt gaaaccctaa ttaagcaaaa ctacaaggtg ctgttaccga tcatctatcc 360
 agcactcgag agaaactcca gagatcactg gaaccaagct gtccgtagcc tgacactgaa 420
 cgtacgcaag atcttctcag accatgattc caca 454

<210> 17325
 <211> 304
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-E2

<400> 17325

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cgtgccaggg aacactaacg cgccatgaaa aaactggcag agctcatgct catcctaggt 120

ggagctttgc gcgtgtgcca tgtgttgctg gtggtgctgc tgccgctgcc tggagtgcac 180

ccataacatc gtccctcccc tcagcagcct tcccttcttc cgcttctccg gccagctct 240

cccaggtgga ggtggaggtg gagcagcggc ggcggtggtg gcttctccac ctgtagtctc 300

catg 304

<210> 17326

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-F10

<400> 17326

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aggagaggt cgagtgcgag aggcctcttc ctggcgcca ccggcaccgc caccgccgcc 120

gccaccacca caaccggcgt ctgctcggct ataaaacct accccttcta gtcttcccg 180

cgccaccagc cgctcgttg aaacctaaa cctctctccc cgtaggtct ccccagcgc 240

cccgacgatg gcggaggacg caccgcctgc agcccctgtg atgacgccgg aggaagtgca 300

ggctgagacc gagctgcgga tgcgcgacat aggccagcgc tttggtgcta tcccagagga 360

ccccgacgag ctgctccggt tactcgaaga agccgaaatc tggttgtcca ggttgatca 420

atctccgccc gagagcatgt acaatgctct tcg 453

<210> 17327

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-F11

<400> 17327

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 tttgatcaca cacaggaagt tgagatcaga gaaatgcagg ctgccgctac tgccgccggg 120
 ttctcggccg tgctgcccgc caagggcagg ccggcggcga ggagcagggg ggtggcccg 180
 gtccccgcca caaggaggag cgtccgtgta gctgccgtcg tcgcgaccga ggccgcgcag 240
 atcgactaca gctcaagcgt ctcgggtgttc ccgatggagg cctgcgacct gcttgggtggc 300
 gacgcgtgca acgggcccac gttcccggag gccaaagccc cctcggcggc ggccggcggc 360
 agcaggagtg tggtcggggg ggacagggac tacctgtcct acgacgagcc aaagacggtg 420
 ttcccgggcg aggcgtgcga tgaccttggc ggcgagttct g 461

<210> 17328
 <211> 470
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-F2
 <400> 17328

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 atgtactgaa ctgtacaggc ttatcgagaa agagcactgc gagtctacaa caatgcacac 120
 ccaacacagg cgggtggacac aaccatcca ataatctttc atgagtacag tgtcggagtc 180
 atcggccaat ttcttcaaaa ttatcattaa tttatgatgt tcatgtaact atagtcgtag 240
 gataaggcag ggccgggttg gtttcatcac gcggatggga gcaccttctt gacgatctca 300
 tctactgagc aggcgatctg ggcgtcgagc gccttaacag cctactcctt ctgcgcctcg 360
 aggttggcga gcgcctctac gagctcggcc tccacacggc tgcgcccctc gtccagcttg 420
 gccttcagct ccgcgggtgg ctcctttcttc atcttggtta gcgcgcgcgc 470

<210> 17329
 <211> 242
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-F4
 <400> 17329

cggattcccg ggctgcccac gcgtccggcc atcgacacga tcgcgagcgc agcacgtacg 60

<210> 17332
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-G10

 <400> 17332

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 cggaagccc cgccgccgac ggcgtcggcg acgccgcgag caagcggccc agcggcgatg 120
 ttggccccac cccggggcca gccgacaagc gccgccgccc ggagcaccct tcttcctcct 180
 ccgcgggctc ccgcgaccgc caccaccacc accacggccg ccgcccgcg tcttcggccg 240
 acgagaaggt gcgcgcctct cacatcctga tcaagcacga gggctcccgc cgcaaggcct 300
 cgtggcggga tcccgaaggc gtcgccatct ccgccacgac acgcgacgac gcggccgacc 360
 tcgcgcgcgc gtcgccgac cagatcgtct ncggtgaccg cgagttcgag gacgtcgtg 420
 ccgagaactc 430

<210> 17333
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-G11

 <400> 17333

cccggtcga cgcacgcgtc cggccgatga tcttcgagac cctctccgat tagaactcgg 60
 cgaaaaacac cgtcccctgg ggcctcatca tcgcgtgcc gcacgccgc caccatcgat 120
 tttgtccaca acccgaaggc ctacaacaag ccctgccgcc cctagatctc ttcttactac 180
 tccgccggtc ccgaccacag ccaccatcag caccacggtc gccaaaccgc gttgccacgg 240
 cgccacaaac tgcac 255

<210> 17334
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-G12

<400> 17334

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aaacatcctt gtcgagcgag tccatggggg tcccgcggag gagaggctcc actggcgctc 120
cttcctgggtg aagctcgggt ccgagaacct caaagggtcc aagaacgagg agctccacgt 180
tgccctccac aagtctgtgt ctattgttta taccacggtc ggggatgtct gcctctacat 240
tgttggcaag gatgaatatg atgagcttgc tttggctgag gtgatctttg caattacatc 300
agcagtcaag gatgtttgtg cgaaacctnc taccgagcgc ctcttccttg acaaatacgg 360
gaggatctgc ttgtgccttg atgagattgg ttgga 395

<210> 17335

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-G2

<400> 17335

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tgcccttgat agtctgcgtt tacgttgctt ctctctcatc tttgagttta ttactgttat 120
gacaaggnga catgcatacc caattcattc ccgaagatgg gtgaccaggt tggattcctg 180
aagatgtatt tagtatggag cctttcgttc gcaacttttt tgagaacaca tctacagtac 240
agctcaatca tcgaattctt gccgcaacaa cattactctc tgtgggtgga ttatgggttg 300
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<210> 17336

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-G5

<400> 17336

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ggggagaagg cctgcgagat gctatcgccg gatcaagaac aagccatacc ccaagtccag 120

gtactgccgt ggtgtccctg accccaagat taggatctac gatgttggca tgaagagaaa 180
 ggggtgttgat gagttccctt actgtgtgca ctttgtctct tgggagaagg agaattgtctc 240
 cagtgaggct cttgaggctg cccgtattgc ctgcaacaag tacatgacca agtctgcagg 300
 aaaggatgcc ttccaccttc ggg 323

<210> 17337
 <211> 382
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-G6

<400> 17337

cgacctacgc gtccggcgct ttgcaacgcc tccgtgcaa tcagcccccg cggcgagatt 60
 gccctgcccc tgagtgetag ttctcgccgg tacgtaaggc ttcttggcct tgcgtcctcc 120
 gtctttcggt gctgatacat cgagggtatta aagaagctgc ctgggtccgg gcagcagagg 180
 tcgcccgcga ctgcagcaat ggccgacttc tcttggtca cggtgcttgg cttectattc 240
 ctcaccttca actcatgcat ggcgatntat cggccaacg gtgacgcccg ctccgtcgtc 300
 ttcgctgtgg tatcttatct cgacctngtg cccctgtcg cctgcttgcg ctactacgag 360
 cagttggatc agcagcactc cc 382

<210> 17338
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-G9

<400> 17338

gacggacatg atcacctacg ccgacaccga cgtcgtcatc gtgggcccgc gctccgcggg 60
 gctgtcctgc gcgtacgagc tctccaagga ccccgccgtg agcatcgcca tcgtggagca 120
 gtcggtgtcg ccgggcggcg gcgcgtggct gggcgggcag ctgttctcgg ccatgggtgt 180
 gcgcaagccg gcgcacctgt tcttggaaga gctgggcgtg gcgtacgacg aggccgagga 240
 ctacgtggtc atcaagcacg ccgcgtctt caggtccacg gtcattgagc tgctcctggc 300

gcgccccaac gtgaagctgt tcaacgccgt ggccgtggag gacctcatcg tcaggggagg 360
 gcgcgtcggc ggcgtcgtca ccaactgggc gctcgtgtcc atgaaccacg acacgcagtc 420
 ctgcatggac ccca 434

<210> 17339
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-H11
 <400> 17339

cccgggtcga cgcacgcgtc cggatccttg gacacctgcg cgccgccagc ccgtcaccgc 60
 ttggagaccc gcgcagccgc gcttccttgc gcgcgccag ccgtcgccga tccgtggccg 120
 cgtccgccgc cgccagccct aaggctcgcgc cgtcagccag cccgtctgcc gtcgtgaggt 180
 actgaggaat ttttctggta atcagcatgg cactgtcatc aatgtttaag agaataaatg 240
 tgaaagattt gacctccaag gtttcagtct ataccagtgc tacaggcgct gggccacgaa 300
 aaggactgct ggatcaacaa aaaatggctg cgattccaat ccaaagtatt tgggggtaaa 360
 gaagtttggt ggagagaaag tactaccagg gaacatcatt gtccgcaaaa gagggacccg 420
 cttccatcct ggaaactatg ttggcatggg caaggatca 459

<210> 17340
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-H12
 <400> 17340

cccgggtcga cgcacgcgtc cgccggacgcg tgggcgacgt gcggcggtgc gtgcacacctg 60
 acggacgagg aggcggcgct ggtcggggga cggaaccaca gccacgcgac gcaggacctg 120
 tacgactcca tcgcggcggg gagcttcccg gagtggacgc tgtacgtgca ggtgatggac 180
 ccggacacgg aggagcagta cgacttcgac ccgctggacg acaccaagac gtggccggag 240
 gacctgctgc cgctccgccc cgtggggagg ctggtgctgg acaggaacgt ggacaacttc 300
 ttcaacgaga acgagcagct ggcgttcggg ccggggctgg tggtgccagg gatctactac 360

tcggacgaca agatgctgca gtgccgggtg ttcgcctacg ccgacacgca gcgctacagg 420
ctgggaccaa act 433

<210> 17341
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H4

<400> 17341

aattcccggg tcgacgcacg cgtccgggga gaaggatcct actccaatac ttgacacaat 60
tgatgcggcc attcatttga aaaagctatc tagtaaggag ctcaagcagt tagccgatga 120
agttcgttca gaaatagctt tcataatgtc cagaaaatgc caaccgtgtg gtgctgatcg 180
ctcagttgtg gagctgacaa ttgctataca ttatgtgttc aatgccccaa tggataagat 240
actatgggat gctgggtcaac atgcatatgc gcacaagatt ctacaggaa ggcgctctct 300
cttcatact attacacaga aaaatggcct ttctgggttc acgtcgcgtt ttgagagcga 360
gtatgatccc tttggtgctg gacatggatg caatagtcta tccgctggcc ttgggatggc 420
ggttgcaagg gatataaatg ggagaaaaaa tcgaatagtg aca 463

<210> 17342
<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-A2

<400> 17342

accggctcgg aattcccgcac tcgacgccac gcgtccgcag ttgagcagct atttaatgga 60
gggataagag ggaggatttc 80

<210> 17343
<211> 237
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-050-Q1-K1-B10

<400> 17343

tactcgggttc tcggaattcc cgggtgctac ccacgcgttc cgcgacaaca agcctcctgg 60
 gtcgtcatcc tgctgcggtg ggcgtcgcca aggacgtctt tcacgcggg tggccgacgt 120
 tctgtcttgg accgcgccg gtcgtcggct ctctgcttgc tgaccagcta cgggttggaa 180
 tgatntgtct cgctcgtcgt gtctcgtgtt cgtgtcctca ctctcttgg gtgcacc 237

<210> 17344

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B2

<400> 17344

accggtttcg gaattcccgg ctggacgcca cgcgccgga agacactatt ctgtcactca 60
 gatgtacct attcaggtta cacgtgctac actgggattt tttattttgt gccgcctgat 120
 atcgatacgg ttgggtaccg ggtatttctg ggccacaaac agtacttcgt ctcttcggat 180
 gtcggtgccg gtaaaatgca atgggtattct ttttacaagg aagaggctgg tggcactgac 240
 cttgagaacg gcttatagaa aatgtttgct tgagttattt gatgggtggg gtgttaattt 300
 cattttattt ttttatgtca tcttattttt ttcttttttt tttttttatt ttttttcttt 360
 ttttctttta ttaatttatt tttttttatg tttttttttt tattttctttt atttatcttt 420
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<210> 17345

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B4

<400> 17345

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 tctatctcta tctctgcgcg cgagctcgcc gctgctctcc ctgctctccc atggccgcg 120
 ccaactccgt gcgctcgccg gatcccttgc tcggcttcta ctgccgttcc ccgtgctcgc 180
 gttatctccc tctctcttgc cgcctctcgc tgagtccttc tgtttcttcc catggcacgg 240
 ttttcttgc atgcttttgc tggcacccat tttcttttct ctaccgttat ctcttttcat 300

gttcattctt ttatctttcc ttatattgtg tttttgctct ctttttcatt tatatttttt 360
 ttttttattt ttttatctta tttttttttt ttttttatt ttattttttt t 411

<210> 17346
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-D10

<400> 17346

tcaaccgaat gatcgtagcc tacacttata cttctaagtc tatctatata tgcttgatgg 60
 tgtgtagggg tgtctccaga aagcttgctt gttacttata tcccacacac ttgcgcgcac 120
 gcaacccggc ctttgctcct ctcttgcttc tcaactgctg tgccccctgc tattcttctc 180
 tgatcgattt ctgtcatggc ttcattctgg ttcagctgcc gctgtagctg tatgacccat 240
 gtttgccgca gatgacccat gtgggactat tcgggggctt tctttcccat atttagttgt 300
 tgtttgttta gtttgttttt tttttgtctt ttttttattt tattcttttt ttttattgat 360
 tttctttttt ttttgttttt ttttgatttt ttttttattt tatttttttt tt 412

<210> 17347
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-D11

<400> 17347

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 tcgaagcttt gtacccttta aaggttcatt tggctatttt cttgggtctt gactaattta 120
 tattttctat cttttctttt tttttttatt ctcatatttt tttatttttt tttaattatt 180
 tttatattat tttttcttat ttaattttatt cttattttta ttttttattt attatttttt 240
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 ttcatatatt atatattatt tttcttctat ttttataatt ttattttatc tataattttt 360
 tattttatatt tttttttttt tctatttttt attttatttt tttattatca ttatttttat 420
 tttattttatt ttatttttat tttttttttt atatatt 457

<210> 17348
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-050-Q1-K1-D4

 <400> 17348

taccggttcg gaattcccg gctctggagt ttatgaatga gcaaaaccgt ggtgccacgt 60
 gctacaaaac caaagatata agaggcagag aactcgtgag atgagaaaag cgagaaaact 120
 gttcttctaa ttgatagtga actgtacaat cgctctgatt ttatcactga gtacaaggat 180
 gccaaattct ttgtaataaa gtcctacacc gaggaccatg tacataggag cattaagtat 240
 aatgtttggg ctagcacagc cagcggaaac aggaagctgg attctgctta ccgtgcggcc 300
 agagagaaaag aagagcattg ccctatcttc ttgttttttt cggttaatgt aagtggccaa 360
 ttttgttgct tttttttata tttattgttt ttgtttatct ttttttgatt tttttatatt 420
 tttgttatct atgttttttt tgttttttta tttctttttt tttatctt 468

<210> 17349
 <211> 193
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-050-Q1-K1-D9

 <400> 17349

tggaggctat tcagttgttt tggctggttt tggagccggt gagaggggca cactacgggg 60
 gtattcggac gatatatggg cntctgatgt tgagtaccgc tgcttcacgc gcggcctcac 120
 ctgggccacg gacgaccact ccctccacaa cgccttcagc acctactgcg aggtcctcga 180
 gtccaagatc atc 193

<210> 17350
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-050-Q1-K1-E9

<400> 17350

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ctacttctta tgtgcttctt aatgcggggg atagaggtat gttgttggtc caaccattgc 120

atgatgttta ctatgggcaa atttttttta tctattatat actgtgttta ttttctattt 180

tttttttctt ttttttttat tcttttttat attcttattt tttttttttt ctattttttt 240

tttatttttt tatttttttt ttttttctta tttctttttt tttttatttt taatttacta 300

tattatttta atattttttt ttttcttttg atttatcttt tttttttttt ttttatttat 360

tttttctttt tttttttttt ttttcttttt atttttattt tattttattt ttctttattt 420

tttttttttt cattattttt tcttttttat tttttttttt tttttt 466

<210> 17351

<211> 255

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-050-Q1-K1-F10

<400> 17351

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gaacatggtg canntttaca tgtgcctttg gcacctttct ctggcgcttc caccaccaca 120

accttcgtct cgtcttctat aaatccctac ccttctagt cttcccttct ccaccttctt 180

ccttgtttaa acccttatcc tctcttcccg ttaggtctcc cccatctccc cttctatttc 240

ttatgactct ccttc 255

<210> 17352

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-F3

<400> 17352

accggtttcg gaattcccgga ccgcgatctt ttcgccttcg tctcttcgtc ctctttctcc 60

ggcttctccg acacggggcc 79

<210> 17353
 <211> 148
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-050-Q1-K1-F9

 <400> 17353

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 cgacacgggc cgcggcttct acaaggtgta ctgtgacgtc ttctacaagg tattcgcgca 120
 ggagcttgcc tatgctcgcc ggatgggg 148

<210> 17354
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-050-Q1-K1-G10

 <400> 17354

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 gcgctggagc tcctcgcggg ctgctatcgc gcgccgcaac gccaccatga agttcaacat 120
 cggaaccct tccaccgggt gccaaaagaa gctggaaatc gatgacgacc agaatctgcg 180
 tgccttttat gaccgaaaga tatcccagga ggtcagtggg gatgctctgg gt 232

<210> 17355
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-050-Q1-K1-G2

 <400> 17355

 accggtccgg aattcccgac tgcgaccac tcgtccgcaa atagtggagg ttttcttctg 60
 ga 62

<210> 17356
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-050-Q1-K1-G8

<400> 17356

cggtgtgacc cagcggtccg ctcgagctcc gccgcttgcc cgcttttgtt ctctccctcc 60

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cgctagtctg ccaccgcccgc ccgcccgcgc gccgttcgcc tcctcatggc cgcctcgtcg 180

accgccacct ccgtccacga cttcatcgtc aaggatgcga gcggcaaaga cgttgacctc 240

agcacctaca aggggaaggt tcttctcatt gttaacgtct catcctcatt gtggcttaac 300

taacttcaac tacactgata tggcctatct ctactagtag tacatggacc aatgcttt 358

<210> 17357

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-H5

<400> 17357

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ccttttacac tcaacagtca tgggtgttcat gttcagggag catcagcaac acgaggagga 120

ggaggtgcaa gggaaggtcg tccaagaaga agtgcattgt tttcaataat acttggtttct 180

ttttcctttt tattttatttt ttattattat ttatatttcc tattttatttt tttaattttt 240

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<210> 17358

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A11

<400> 17358

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ggacgacggc gagatggcaa gcggggaaga aggcaagggc gagacggtgc tggtcaccgg 120

ggccagcggc ttcacgtggt cgacctcgt ccgcggcctc ctcggccgcg gctacaacgt 180

ccgcgcgggc gtctctgacc ccgacgacag ggcgagagac gaccacctcc tcgcgtcgc 240

cgccggcgcc ggccgcctca gcttcttccg ctgcgacctc ctggacagcg ccgcgctgct 300
 cgacgcggca aggggggtgct cgggggtctt ccacctcgcg tcaccctgca ccgtcgaccc 360
 cgtcaaggac ccccaagaatc agctgatggt gcctgcggtg gaagggacgc tgaacgtggt 420
 gcgcgcg 427

<210> 17359
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A7

<400> 17359

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 ggagtgggcg gccgtccccg gcgggcaggc cacgtacctg ggcgccccgg tgccgtgggg 120
 cacgctgccg accatcctgg tgatcgagtt cgtggccatc gccttcgccg agcaccagcg 180
 caccatggag aaggaccccc agaagaagaa gtaccccggc ggcgccttcg acccgctcgg 240
 cttctccaag gaccccgcca agttcgagga gtacaagctc aaggagatca agaacggccg 300
 cctcgccatg ctggccttcg tcggcttctg cgtccagcag tcggcgtagc ccggcaccgg 360
 cccgctggag aacctcgctt tccacctcgc cgacctgtgg cacaacaaca tcggcgaca 419

<210> 17360
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A9

<400> 17360

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 aacagaaaag tactggaaag gatggtatga aggtctttca gacaagttcc tatcttgccc 120
 agtgcaaaaag atcctgttgt tagctggtac cgacagactg gacagagctt taacaatcgg 180
 tcaaatgcaa ggaaaatttc aaatggtggt gattcggcac actggacatg ctatacagga 240
 agatgtacct gaagaatttg catcgacat actgaagttc atatcccgca acaaaatagg 300
 gcctaattgt gtcgagatac ctgggctcat taaaaaatgg caacagtaga cataatgtac 360

aaggtaccga tctggaaaat gttcaggaaa atgatgagt

399

<210> 17361

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B1

<400> 17361

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atcatgcagt cacttgatgt gaactatgtg cttgttgtat ttggagggtg tactggatat 120

tcttcagatg atatcaacaa gttcttatgg atgggtacgta ttggtggagg ggttttccct 180

gtaatcaaag agccagatta ccttggttaac ggggaatatc gtattgacaa gggggcagca 240

ccaaaaatgc tgaactgcct aatgtacaag ctttgttact accgatttgg agaacttacc 300

acagaatatg gaaaacctcc aggggtatgac cgtgtactag gagtggagat tggcaacaaa 360

gatataaagc ttgaatactt ggaggaggca ttacaactt caaactggat agtgcgcata 420

tacaaggtga aacccccaaa agac 444

<210> 17362

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B3

<400> 17362

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gatcatgcga cgtcagggcg gttctatagg gtcacctaga ggcaatt 107

<210> 17363

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B4

<400> 17363

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tctacaaccc aaatggaagc caagcctttc gtggttcaaa aacgccgaat ctggtctgaa 120
tcatcatttg tcaggacttt tccgagtaag ttctttggct tggacaggac atttagttca 180
tgttgctatt cccggatcca ggggggagta cgttcgatgg aataatttct tagatgtatt 240
accctatccc caggggttgg gtcccccttct gacgggtcag tggaatcttt atgccccaaa 300
tcctgattcg agtaatcatt tatttggtac cactcaagga gcggaactg ccattctgac 360
ccttcttggg ggattccatc cacaaacaca aagtttggg ctgaccgata ttgctcatca 420
tcatttag 428

<210> 17364
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-D12
<400> 17364

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gggaaccggc caagatgggg ttccaccggc acaagccttg gccgggggta ttctatttgg 120
ctttgggccg gaaccaagca gaaggcctgt ggtgatgatg gccttgggac ataacttcca 180
gggcaggaag aaggcccaga agacgaactc aaagggtcaa gaattcacct tgcaatgtgg 240
gactttggtc agtgtgatgt taaaagatgc actggtcgta aactttcaag atttgggctt 300
ttgaaggagt tgagagtgc catnggttct gcgtgggtgt gttctcagcc ctgttgaac 360
acagtgtgta tccaaggaag atcatcctat tgtgcaaaga aaaggattgg ctgtgggtga 420
ttgttcctgg gcacgtttta gtgat 445

<210> 17365
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-051-Q1-K1-E12
<400> 17365

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tggaaaggca catcgagccc ggagagttga cagcgcgggc acaggcatga gagccggatc 120
 gattgcggga gagcagcagg gaagacatga agtactgcct tcttagttac ttgcagctta 180
 tctggcaccc gctgcacata gctttgtaca gtccttgta gaagcagtct gggctcttgc 240
 ttggaggtga ccgtgcgctg gtcctttgct ccaagaattc ctttagtctg tagattgttt 300
 atcttcttaa gctgattggg aatctaacca gtgaaatcgt tgttcgcaac attcctagag 360
 gcaagcaggt tatgagctat ggtactggac atgcaaatga agcaccaaaa atacccatca 420
 tcattctc 427

<210> 17366
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E7

<400> 17366

accggtccgg aattcccggg ctgaactact gaagcaatgg ccatgagagc tctcccgtg 60
 acctcttcca ggagctcctc gtttgagct caccgaaacc aggccgagcg gcggcggccc 120
 cagatcagtg agagcttatg cgaagggaga cgaggagggc gacaagcagt ccctcttcgg 180
 aagcatcacc gaggcgtgg acttctcgca ggtccggtcg gagaaggacg ccgagctgct 240
 gtacgaggcc agggagtcca ccagaggtgg agggaggatg acgagggagc agtacggagc 300
 acttaggcgg aagattggtg gcacctacca ggatttcttc aagtcatatg ttgaagtcga 360
 cgggcaatac gtggaggagg gttgggtcga caagacctgc aagatctgca agaaggacac 420
 aaggggggag ccgaggcagg ttgacaagct 450

<210> 17367
 <211> 210
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F1

<400> 17367

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 agctgctcgt ttggagctga ggataccatg cccagctgcg ggggccccag atcattgaga 120

gcttattcga agggatacta agacggctac aagcagtcgc tcttcagaag catcacccgag 180
gcgcataact tctcataggt ccggtcggag 210

<210> 17368
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F10

<400> 17368

ctgactttcc ttctgggttaa ggccacaagg atcccgact gttttggttc aatgtgtgtc 60
tgtactgacc tgtacaagct tatctggcca gaatactggc tgcctacatc atgcacaccc 120
atcacaggcc gtggccacaa cccatccaat aatctctcat gagtacagtg tctgaagcat 180
catccaatat cttcagaaat atcatgaata gatgatgttc atgtaactat agtcatagga 240
caaggcaagg cctgtttggt tgcatacgc agatggaagc accttcttga cgatctcatc 300
actgagcgag gcgatctgag cgtagagcgc cttgacagac tcctacttct gcgcctcgac 360
gttggttagc gcctatacga gc 382

<210> 17369
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F11

<400> 17369

cgtcttaaag gtcccagctt aactaccct tccttccaag gtcttacttt tttattaggg 60
taacttaaata taaattaat 79

<210> 17370
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F3

<400> 17370

ctcggttcgg aattcccggg tcgacccacg cgtgcgctcg acaatggcac tccaggcagc 60

ctactagtag ctgcagcagg cgcgcggcca tggcgcgtgg tcgtccacgc agacgctgac 120
gctgctgctc atcgacgtac ccaccgtact actgctgcta gcgtccctcg ccaagagcac 180
gtcgtcgtec ggtaggggca agcgcgtcgt ccctccctcg ccgccgggca ccctcccat 240
cgtggggcac ctacaccaca tcggggccca gaccacatc tcgtccagg agctggtggc 300
caagtacggg cacaacgggt tacgtttcct ccgcgcggc gccgtgcca ccctgatcgt 360
gtcgtcgccc agcgcgtcg aagcgtgat gcgcacccac gaccacatc tcgcgtgccg 420
gccgtggtcc atggcctatc acattctccg ctacaacacc t 461

<210> 17371

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F8

<400> 17371

gaattcccg ctcgacccac gcgtgcgagc ttctgcatac cttctctagt ttattctacg 60
ccacagtagt cgacaccgtg ggcgagtacc tcccatggcc gctggtatcg tggcctgtgg 120
tgagccgat gttacgatgg ggtagggga tggacactag cctgaacgag gaggcgatg 179

<210> 17372

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-G1

<400> 17372

agtttcggtt cggaattccc ggcgcgcgtt ttccacgtcg gagatctggg catggtcagc 60
tatattcgtc gcgtcggttc gcgtcgcatg tttcaatccc acggcgtttg gtaccacggc 120
aagaacatgc cttcctttcc tgcttgctgc taatgtgctg ggatacatgg ttggttcttg 180
gttaccacct ggcgtcaaga aagtgtgta tccgatcatc tcctgcgcac tctgtgcaga 240
tttcgcggcg ctagectatg ggtacatctc agggtttgga cttgatgccg tgctaggtgc 300
ttacctcaca aaggtgccct ctaatcctgg agccggtgac gtactaatga ctttccttgg 360
gtctgtgatc atatcatttg cattctcgat cttcaagcag agaaagcttg tgaagaggca 420

cgcaacagag attttcacat caattgccat cgcgtcgaca

460

<210> 17373

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-G2

<400> 17373

cagcagttca cacaagcacg ctatcgtcgc acgggcgctg aacacagact caccaagcgg 60

cactgccaat ggcttactac cacgacgtgg actactgctc tgaggaggcg aagtcggagg 120

tcacagacgg ttatggacct cacggaagca gtgtacagaa gtacgtactc aatgagaaat 180

tcacagaggt cgacactgcc tgacgcgcgc gggtcgacca ccaccacctc taccatggtc 240

aacacgacag tcacgggttc atacagcgcg agaacacggt cgttgaggac a 291

<210> 17374

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-H1

<400> 17374

ggaattcccg ggtcgaccca cgcgtgcgta cagcactcca cacaagcact tcgacgttac 60

acgggcgctg gacacagaca caccaagcgt cggcaccaat ggcttactac cagcaggtgg 120

actactgctc ggaggaggtg aggtcggcgc ccccgacgg cttgcgcgc cagtcgggtg 180

gcattcagca tcacatgcgc aaggagaaga tccaggaggt cgacactgtc ggacgctgcc 240

tcgccaacca ccagcaacaa catggtcacc acagcagcca ctgctttgtg gtcgcgcgaga 300

ctcactgtga ggaggacatc atcacctgca ccggccaggt ccacgatcgc acggagagct 360

tcctagtcag ggctaactga gcagcccga cggtcggaat ctacgcgcgt tcgtgcctgc 420

ctgcgtgcct t 431

<210> 17375

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-H11

<400> 17375

ctcgggtctcg gtattcccgg gattcgaata attttgctac ttacctggat atatgttacg 60
tatagatata tagtaaaggg cggttattat ggcacaaatt cgtaggggtgt aggtacaggt 120
tttgaatttg acatttgatg aacctgtat aaaaaccgac ttttctatat tccaaacgaa 180
catcctaatac agatagaccc atccttctcg ccaaaaaaaaa aacaaaacat aaaaataaga 240
aaaaaaaaaa aaaaaaaaca aaaaaaaaaa acaaagac 278

<210> 17376

<211> 321

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-A4

<400> 17376

ggaattcccg ggctcctcta tcggtgacgc acgcaccgc cacctctgat ctgatctctc 60
cccctggatc tcgacctcg nctggctgct ccgctctgcg tcgctcgcca tggcgctctc 120
gacgggggagc ttggagcacg gcggttcac gttcacgccg ncgncttca tcacctcggt 180
cacggagctg ctctctgggg cagcagcgga catggttagga gccgcgggcy cccgatcatca 240
ggagcggctc cccagggggc tgttccaccg cggcgccacc agggggcgcy gcgtatgcgt 300
gcccagttc aagtcgcgc a 321

<210> 17377

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-A5

<400> 17377

cggaattccc gggtcgaccc acgcgtgcyg agagatctcg atccgcacac cttacgcctc 60
tcttctctc gcccgaagga caacgaaaac atcaaacaag agaaccaaag gaaacagagc 120
aagagcatcg ctctcgaagc aaaacgcgca ccacgccgct gccggccggc cacttcgcac 180

gtacgtagga cgcgcacgca ccggtgcata tatggggctc ctgaaccagc tgtgggacga 240
cacggtggcc gggccgcgcc cggactccgg cctcggcaag ctccgcaagt acgcctnctt 300
ctccccctcg tcgtcgctcg cgggcgcggt ggcgggcgcg gggcgggcg gctccgcgcc 360
gnctncgggc gccgtgacgc ggagctggac catgctgcgg cgggccgcgg cgctgtccgt 420
cgtcacg 427

<210> 17378
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A7

<400> 17378

ccggtccgga attccccggc cgagtgcgaa ccaagcagac cacagcaaga agcgtagtct 60
tttccggaag gaaaggcgcg gagcaagatg tcgtggcagg cgtacgtcga tgagcacctg 120
atgtgcgaga tcgaaagaca aca 143

<210> 17379
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B11

<400> 17379

accggtctcg gaattccccg gccgacccac gcgtgcggca cctcttattc cttcctctct 60
ccgagctcct cagccgaggt ggcgaggacc ctccctgtac atcgtctcct ccatgtcgac 120
atcttccctc atctctccaa cgtcgtccag ccattgagca gctcatcgga gcagcaacgc 180
tcgacactga gtagcccacc gtggagtcac ctcatcagcg tctgctcgct cctcgtccgt 240
tcgtcgagct cggcaagccc ctctcagcc gtgccgagtc tccaagccgg ctgtcgacgc 300
tcgcctttgt ttctgtgtta ctggatatca ttcttgctcg ccaatcgagc accccaccca 360
ccgttccagt tccgattccg ctagttgtcg ttgcctcgc catcgtctct tgggaaagat 420
tataatgtct ttggcttaat tagttacttc atgtggaggt cttgaagctt agatta 476

<210> 17380

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-B9

 <400> 17380

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 aatggctgcc tccaccatgg cgatctcctc cacggcgatg gccggtaccc ccatcaaggt 120
 gggctccttc ggcgagggcc gcatcaccat gcgcaagacc gtgggcaagc ccaaggtggc 180
 ggcgtccggc agccccctgg acggccccga ccgcgtaag tacctcggcc cttctcccg 240
 cgagcccccg agctacctca ccggcgagtt ccccggcgac tacggctggg acaccgtcgg 300
 gctgtccgcc gaccccgaga ctttcgcca gaaccgcgag ctggaggtga tccactcccg 360
 ctgggccatg ctgggcgcgc tcggctgcgt cttccccgag ctgctctccc gcaacggcgt 420
 caagttcggc g 431

<210> 17381
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-C7

 <400> 17381

 caaggaagct agaagcgcg cgtttattgc catgagcgca tcacaccaga ctagttat 60
 aaaaaactct gccacacggc ggaacagagc gcccgatcga tcgggcccgc ggagacgacg 120
 accacaacat catcacgact accacgctgc tagtacttgc aactcctact gctactaccg 180
 gctagtataa tacacggagg cgcgcgcggg gggaccagga cggccgccgt taatcaggcg 240
 ctggccttgt tgaccttctt gccggcaccg gaagcggcgg cgcgggctgg cttgggcttg 300
 ggctgcncgg gccgcccggg c 321

<210> 17382
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C8

<400> 17382

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tatectcccg gcccgccggg ccgggggtcac aagcgcaagc agtgaacacg gcgcctcctc 120
gctcgcgcgg ccacgcccc gtcgtcgtct tctcccggca ggtactacag cgcataaata 180
cgcagcaccg ccgcccgggt cggatcccgt ctggccaccc atccgatccc acccggcagc 240
ggcgtgcgc aatggccacc cagcgagctc tcgccgcctt ccgcacccc gccggcgccc 300
ggctgcacag cagggcgccg gcgtcgtcca ggcacggcgt gcagaggctg gac 353

<210> 17383

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E10

<400> 17383

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ttcacataca acagtagtat caacattgct atagcagtgg ccatagatgg tgggttgatt 120
acatcggttc ttcactgggtg ggctaggggt tatctagaga tgacaaggcc ctcaagttgg 180
ctttccagca ctggatcgaa gcgatgagta caaacgggca gtggggattg actccaactg 240
acaaagttaa aagcaaagat gaagcttcac cttaaagaga caggtgacga ctctttcagt 300
tcatggaatc agcatggcac aaagaagttt tcggcctgtc attgtcaata tcattttgag 360
accagcttc ttcagatgct atcaatgagc taagatcagc aactgcacat gccttacctt 420
cagcaactcc aggagatacc gcactctctt ctg 453

<210> 17384

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E3

<400> 17384

ctaatgttat acgttacttt tctactcacg ctctgaactt tgcattttaag ggctagttca 60
atacgttctt cagctccaag aaggacttgg atggctatag caagcggctt gctggcaacc 120

tggcctatgg tcggagctgc tcggtgctct ctctctgctt gttgcatact ccctggacta 180
 cccaagagca cagttggcta atgacgcaaa ggctgctcat ggatgaacgt gaaaggcaag 240
 ccaatggact tgatgatgtc taccgcacga cactcaagtc tgatagtctt gctgggctct 300
 accacggatt taacatcttc tgcgttggca tcattggcta tcgtggctctg tacttttg 358

<210> 17385
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F1

<400> 17385

eggctcgacc cacgcgtacg acagcattca tatcccgga gctctctctt tctcgacact 60
 aactctgcct tcaagggcga ccctacctca ccagctgcat aaccgaaggc cagataaccg 120
 tctcgccagc cacctgctgg caaagtcgcc tacataaacc actaatcgac cacttctctg 180
 accaaaccac acaccctgga ataccctaata gcatgcaagc ttcattacgc caaggctgaa 240
 cactactacg tgaaaggcac ctgaatgggc ttgcctatgt ctaccgcaag aactcaaag 300
 ctcaccgtat ctgcgggctt taccgtcgat ttaacatctg ctgtgttcga atcattgggt 360
 atcgc 365

<210> 17386
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F10

<400> 17386

agggggggga gatgggaaat gttctaccgg tccggaattc caggcacgcc tacgacccta 60
 gctctatagc tcgaggattg cttgctctcc acaagaaaca aggcagagca ccaacaatgg 120
 ccgccgccta ctgctectcg gtctctctgc tgctctggc cgccgccttg gctggcatga 180
 gcgccaacgc cgacaccttc accatcacca acaactgcgg gttcaccgtg tggcccgcg 240
 acaccccggt gggcggtggc acgcagctga acccggtcgg gacgtggacc gtcaacgtgc 300
 cggctggcac cagctccggc cgcgtgtggg gccgcaccgg ctgctccttc aacggcaaca 360

gcgggagctg ccagacaggc gactgcggcg gcgcgctggc ctgcacgctg tcggggcagc 420
cgccgctgac gctggccgag ttcacatcg g 451

<210> 17387
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F6

<400> 17387

aattcccggc tcgaccacg cgtgcggggc aaaagccaaa aggcattttc gtcgcgacga 60
cgatggcagc ctgcgtcgaa gggcgggcca ccctgatgca gccggccaag atcggcggcc 120
gggcgccctt tgccctcgctg ccgtcccgcc cgctcgcgca actcgccctgc agggcgttcg 180
gcgtcgacgc cggcgccgccc aggatcacgt gtcacctgca ggacgtcgcc agcaggtgcg 240
tcgacgccgc gaagctcgcc ggcttcgcgc tcgccacctc ggcgtcctc gtctcgggcg 300
cgagcgcgga gggcacgccc aagaggctga cctacgacga gatccatagc aaaacgtaca 360
tggaggtgaa gggcacgggc ac 382

<210> 17388
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G10

<400> 17388

cgggtcgacc cagcgtacg gctcgccctg ggtcaaacc taagcaggta gttgatttat 60
ccgctgcagc catgagtaag ttgcagtctg agtctgtcaa ggatgccatc tcccagattg 120
ttgggggatgc caaggagaag aataggaagt tctactgagac tgtggaactt cagattggtc 180
tgaagaatta tgatccacag aaggacaagc gtttcagtgg ctctgttaag ttgccccata 240
tcctcgctcc caagatgaag gtgtgcatgc ttggtgatgc ccagcatgtt gaggaggccg 300
agaagatggg acttgactac atggatgttg aggctctcaa gaaaatgaac aagaacaaga 360
agcttgtaa gaggttgcc aagaagtacc atgctttctt g 401

<210> 17389
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-H5

<400> 17389

taccgggtccg gaattccccg gttttgacca aagatggtac ggtcgaacaa acaattaacc 60
 atatccaatt ttgtacacca ctacacaaat ctaggacttc cagttcaaga atacttcgga 120
 tgatactttg cctgcaacat atgtgtgtac gtgcaggttt tccatctaga gatcaagtgt 180
 tctagctata tgtacaagac catgttcac tccgacctcg accaagctac tactttcttc 240
 gttttgtttt agttgtcgct ggatagtgca aaattgaact atccagcaac aactaaaaag 300
 aaacgaagaa acggagggag tacttccgat ccaaagacga agagcttgta gaagtggagc 360
 tgaacgagct aagctaagct accaattaaa gaataggcag cgcgggcccg gcatgcagat 420
 gcaggtgttg tgggtgttggc gccacactac tgcacgcgcg 460

<210> 17390
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-H8

<400> 17390

ggaattcccc ggtagacctc cgcgtccgat ctgaggccat gtgctgcgct aaggtgagtg 60
 gctgtcactc gaatgggttg actggtgagg tgatccttgg gaagcaggcg ttttccccac 120
 cgatcattag tggatgatctg ggaactttca tggcctgcat ggatgatgtt cgaatgctca 180
 aggtcctggc taacgccgat accacgtgat gatgcattga ctgctcgaaa cactggggca 240
 caaggaattg gattatgccg gacagagcac atgttcaccg cttcatatga gaggatttag 300
 gctgctaggc ctatgattat ggctecca 328

<210> 17391
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-A1

<400> 17391

aagatggaag gcgatcggcc acctatgtac acggacggat acgccaatta ggtgcgggacg 60
tgcggaggtg cggatcctg tatcggatac ttaacagata gggatacccc atgatacgta 120
cgaataaaaa aagaaaaaaa aaaaaaaaaag agaaaaagaa g 161

<210> 17392

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-A10

<400> 17392

tgacggttgc tctagatccg ttcctcctgg tggttctgtg aggccgaaag cggcgagcga 60
attataagat gctggacaag ctgtgggacg acgtggtggc cgggcctcgc ccggagacgg 120
gcctcgagaa gctccgcaag gccaccaccg cccgtgcgct cgtcatcaac aaagacgcgg 180
acggcggcag ctacaagcgg gcgcagtcga tgccgtagac cccgacgacg ccggtgacgc 240
cgtcgtcgtc ctcgtcgtcg acgacgccgc gcggggccgt gaacgtgtgg cgcaacgtcc 300
tacagccggg gagcaacctg gccaacgagg g 331

<210> 17393

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-A3

<400> 17393

ccggtccgga attcctgggc cctctcgctc cagccgcttc acagcgccgc cgctcgcttc 60
tccgaccgcc gcgagaatgc cgttcaagag gtctgtggag atcgggacgc tggccctggt 120
gaactacggc aaagactatg gccgcctcgt cgtcatcgtc gatgtggtcg accagaacag 180
ggcacttgtg gacgccccctg atatggtcag gtgccagatt aacttcaaac ggctctcact 240
tactgacatc aagattgaca tcaaacgcgt tccaagaag tcaaccctga tcaaggctat 300
ggaggaagct gatgtgaaga cgaagtggga aaacagctca tggggcatga agctgattgt 360
ccagaagagg agggctgcgc tcagtgactt tgacaggttc aaggtcatgc tggcaaggat 420

caagaagggt ggtgc

435

<210> 17394

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-A9

<400> 17394

tgacggttgc tctagatccg ttcattcctgg tggttttgtg aggtcgaaag cggcgagcga 60

attagaagat gctggacaag ctgtgggacg acgtggtggc cgggcctcgc ccggagacgg 120

gcctcgagaa gctccgcaag gccaccacct gccgtccggt cgtcatcaac aaagacgcgg 180

acggcggcag ctacaagcgg gcgcagtcga tgccgtcgac cccgacgacg ccggtgacgc 240

cgtcgtcgtc gtccctcgtc acgacgccgc gcggcgccgg caacgtgtgg cgcaacgtct 300

tccaaccggg gagcaacctg gccacaagg gcattggccc caaccttt 348

<210> 17395

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D10

<400> 17395

accggtccgg aattcccggg gaagctttcg caagctggcc agctagctcc ctaccgacta 60

gataccgagg agtgacggat caggatggga ggggtgacct cgagtgtggc ggcaagatg 120

gccttcttcc cgccgacgcc gccgtcgtag gcgctggtgg aggacgccgg tgcgggggtc 180

accacgctca gcggccagcc gcaccgggag aacgtcgagt tgctgcgctt ccgcaccgcg 240

aaagggaaca cgctggcggc gatgtacgtg cgccaccgg acgccgcgtc cacggtgctc 300

tattcccacg gcaacgccgc ggacctgggc cacctctacc agctcttctt gcattctgtc 360

ttcaacctcc gcgttaacat cctcgggtat gactattcag gatattggga atcatcagga 420

aaggtatgat caaatcttga agttgaacaa tgt 453

<210> 17396

<211> 375

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-D7

 <400> 17396

 attattgtac tagtaaattgt ccatcggatt tcaatttagc tgactaacga cccaaacaat 60
 acaatagctt atgcttaata ttgcagagta ctggagtagc gagttcacca cgagagcagc 120
 aagacacaaa cgagaagaaa atagcggcag agcacagggc tcgcaatcat atacggacct 180
 ttattttaacc gaccacggac tcacggtagg acgaggcacc cttcagcgac gggcagatgg 240
 gtaaccttga caggaacata ggccgtaggg ccctcacgt cgctggcttc ctctgttcc 300
 tcatcatact gaaccaggcc agcagcgctg aagatgtacg ccttcactta ctgaagcgc 360
 tcctcggaga gagag 375

<210> 17397
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-D8

 <400> 17397

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 cataactgta tgattcagat tacagcgctt tccaattcag cagcctaattg aacctaatac 120
 tccaatagtt caggtttaat ctctcactgt acaagatcaa catgctaacc aagtgagcac 180
 caagcaacga actaatcgac aatatcacca cacaacaggg cttacactca taccggagt 240
 tgtat 245

<210> 17398
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-E1

 <400> 17398

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 tttaccattt ttacttccga acgcggggcg ggggagcttt aatccgggta ccttgactac 120

catttcaaac cccacaagct aatcattgac agcagcgccg tctcgacgtc agaatacatg 180
 gcgtcagcct catccgcgca gatcgcgggc gcacccctca ggattgggta ccgtaagccg 240
 gcgtccatt 249

<210> 17399
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-053-Q1-K1-E10
 <400> 17399

tgtgcacgag gctgaggatt ctgctattat catgagacat aggtcatcgg gaaccggggt 60
 caatgctgca tacatgcaga cattcatcag aagcgtgtca tgcgcataca tatgaggcac 120
 gcacctcgac catggtgttc gagttggcgg atatggtact actggcttcg cgcacctcg 180
 cctgaatgac aagccttact ggatcatcaa gaactcgtgg tgctagaact ggggggagaa 240
 cggatactac aagatatgca ggggttgcaa cgttcgcaac aagtgccgcg tacattccat 300
 ggtctctacc gcgtcctgag tagacgcac gaaggagtag actctgggtca gcggtgataa 360
 tcgtgattcc atatattgta gaactataat ccctgctagt aatccattt 409

<210> 17400
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-053-Q1-K1-E2
 <400> 17400

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 agggcttggt tggttcacga catgggcaac caaggcatat agttccccac ttgaagatcc 180
 tggaatcagc gctgcagaaa agaattttat tgctagtcag agcacagcag gcgaacctgt 240
 taaaacaatt ccatggagat taatactatc aaaaccacct gtctgggcac ttatagtttc 300
 tcattttctgc cataactggg gaactttcat tttgctcaca tggatgccca cataactaaa 360

tcagggtctg aaattcaacc tcatggaatc tggccttata tgtgttcctc cctggttcac 420
catggcggtt tctgcaaattg tt 442

<210> 17401
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-E7

<400> 17401

gaaaactgta tcatatttag tggcacctca gattgaggaa aaatcaaacc ctggttgtca 60
aatactccta ttgacagatt cagattacaa tgtaaatgtc aattttcgaa ggcaaaaaaaaa 120
acaaaaaaaa aaaaaaaaaa aaaaaaaaaa cgactacagc tctaacaaat ccaaggtcac 180
aggactcctg cattcaagtt catatactct tctatagtga cacctacatt tacttcagtg 240
gcacttaatt c 251

<210> 17402
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-E9

<400> 17402

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caatgctgcc tacatgcaga catacatcgg aggcgtgtca tgcccataca tctgtggcag 120
gcaccttgac catggtgatc tccttgctgg atatggtgct actggtttcg cccccattcg 180
cctgaaggac aagccttact ggatcatcaa gaactcctgg ggctagaact ggggtgagaa 240
cggatactac aagatatgca ggggttcctaa cgttcgcaac aagtgcggcg tccattccat 300
ggtctctacc gcgtccgtag tagacgcctg gaaggagtag actctggtca gcggagataa 360
tcgtgattcc atatattgta gaactatgat ccctgctagt aaccattt 409

<210> 17403
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F6

<400> 17403

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gggtccctta aaccatcatt cttgacgaaa ggtgactaat ctactacgcc aatttggtta 120
ttccacttgg tctccggtct aatccacgtt tttgtcatct ctttcgagat gaaaatttga 180
tttagcacca ttagcagctg tcattatcct catgcaatat ctatttctta ttgcttagca 240
cctaacaact catcatctct tggacatttc aacatgaaat tatcttcatg ataagaatgt 300
cctactgact tcagtatacc actacaaact aatttgaaaa tgcttgatca tttctgagat 360
gatta 365

<210> 17404

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-H4

<400> 17404

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tccatgctcg tcgttctctgt gctgctgctt ccttgctcct ccgtcgctcg ggcttctctg 120
ggcgcgtcgt gctggccgcg gtgccagtgg ccgtggacgc caccgcgcg cgccgcgtct 180
ccgtgtcggg gcggatggcc tgggacgggc cgctctcgtc ggtgcgcctg atcatgcata 240
gcaggaacgc gaagctgagc gagaagctca aggagcacat cgaggacaag gtgggtcggg 300
cgggtgtccaa gcactggcac ctgggtccggg aggtagacgt gcgcctctcc gcgcgcggcg 360
gcgagctcgg tcggagcccc aagacgtcgc gctgcgagat caccctgttc accaagcg 418

<210> 17405

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A12

<400> 17405

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tgtctacgtt cctgatgtac gtggaaggac agagattcta aaagtgcattg gtagcaacaa 120
gaaatttgat tctgatgttt ctcttgatgt catagcaatg agaacacctg gggtcagcgg 180
agcagacttg gcaaaccttc tgaatgaagc agccattctg gctggaagac ggggaaggac 240
agcaatttct tcaaaagaga ttgatgattc tattgacaga attgtagctg gtatggaagg 300
gaccgtgatg acagacggga agagcaaaag tcttggttgc taccatgaag ttgggcatgc 360
aatttgcgga actttgacgc ctggccatga tctgtccaa aaggttacct tagttccaag 420
gggtcaagct cgtg 434

<210> 17406
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A3

<400> 17406

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cttttgcgag gacgacttga agaacgactg ccgcgtgggt tctctgaaga accacttcat 120
cgagcactgc ctgtccacgg tggacacgga agcaccagcc gcggcatcat gttctacacg 180
caccgcgtgc tcggctactc catcaacgct tgggacaaca tggaatgata gttggacgag 240
cccgaggacg atgagaacct gaaccacctg aggtataagt acc 283

<210> 17407
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A5

<400> 17407

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atgccgtacc attatgggtgc gattctgcag cccgtatact acccacagag tcctcttatg 120
cactgtgatt cagctggaat caacaaggca gcaatccagc atgcctctgg gcaacctaat 180
taccatgaag ctcccggtaa accatctcat gttcttattg aacacaaaca gtcagaggaa 240
aaccaccagt tgcattcattc aagacaaatt ctccgggaat caggagaacc aattgacatg 300

gcgagagctc acgtggatcg tgctaaccag actgcaagct gcagccaagg tatctgtaaa 360
 ggaagtggat gcacatgtag tggatgaagcc gatatcaacg caaacacaat ggttgcctta 420
 gagagtggca acgagagtgg aatccaaaat gg 452

<210> 17408
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A6

<400> 17408

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 tcctatcgaa ttacttcta tcgaattgct atagctaaac tcctatagga tagaacgtac 120
 acaaggtgta cacatcatat atgaatgaaa catattcatt aacttaagca tactccttcc 180
 ttgatctaata gagctgatat taattaaata tctcctgtta tagatttttg cacaggtctc 240
 atttacgcct aatccatatg gagtagacgc tgacgttgtg agaattctta attcatgagt 300
 tgtagggagg gacttatgtc agcactgaca gaagctaaag cacgtgttgg atttaaagct 360
 ggtgacacgg attataaa 378

<210> 17409
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B10

<400> 17409

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 acccaatgtg gccatgaccg gaccggtaca tatagtcttg catgtctaca tagcacctca 120
 tatgtccaac ttaagccagg cattgatcag aacatcttta cacctgcgat agactctgag 180
 tcgcccaccg ttgcataaac tcgtctcctt ctctcaata caaatgcgtt ccacgagctc 240
 tacaagccc 249

<210> 17410
 <211> 359
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B3

<400> 17410

acccacgcgt gcggcggaat atgtagtttt gagcttttag tttccactca tagcgtatct 60

taactgggca aggttatata aaccactgcc taggcaccaa gctggactat agtacagtga 120

ggcagatgcc cattcactat gggtcgtacc gtctgaacta tttcacagtc tcttcaccta 180

tcacaacaca agtcacacat gctagtagaa cttgctactc attgaagatt gacaagaatg 240

acgcgtgttc catcacatac tttggtgacg gtggtacaag ttgatgtaga cttccatgca 300

tcgctcaact tctcgactgt tattgatgca ccggtgatct tcttctgcct gaacaatgg 359

<210> 17411

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B5

<400> 17411

ttcccggggc gaccactcg ttcgcgtgcc cgcgcattat agatccaggt taccttcacg 60

tgcacacggc tgatacctgg ccggactgac acctaaaact atctcactag ccggtccgat 120

acaactgccg cacttccaaa accttggcgt taccttactc aatcgcttg ctctacaata 180

ctctttttcc ggtcttccca acagcgatta ctccatgttc caaaagcctt ctcatgagac 240

gagtactctg actagcgact tggacacgcc ctggaatgca tcaccaatcg cgacgactat 300

ga 302

<210> 17412

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B6

<400> 17412

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actgagcggc cgaggagccg gttcttcgtc ggggcatctc agcggctctg aggtcgctta 120

gcagcacata ttcgttgccg taggctccga ctcggctcgg tacacctctc tacgcgtgct 180
 cgcttgtcac ttctcagcac ctatactcat caaagccgac actatgcaag tcactatcgc 240
 tcttctgacg catctgtatc cgctcttggt cctgtatgat cagtgact 288

<210> 17413

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B8

<400> 17413

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 ttcttctatg gctaggctta actgggcagg tattagcaaa ccagtgcttt gggatcaagc 120
 tggactatgg taaagggagg cagatgccca ttcactatgg gtcgaaccgt ctgaactatg 180
 tcacagactc gtcacctatc gcaacacagt ttcggcatgc tgatggagct gcctactctc 240
 tcaagatgga ctacaaggac gcgtgtgcc taacatactt tgggtgactgt cagacaagtg 300
 agggagactt ccatgcaatg ctcaacttcg tggctgttat ggatgcaccg gtgatcttct 360
 tctgccgtaa caatggctgg gccatcaaca ctccgactac tgaacaattc a 411

<210> 17414

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C11

<400> 17414

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 aggaagcaat actcccctgt gctctccttg tgctgatgg cccttgctgt agctgctatg 120
 gtctgtgtca tgtacaccac ctcggcacia gcaggaagga gtggctacaa ctcgtacgaa 180
 cctgatggaa ggggtggata caactctgtt cccatcaacg gcggtggcag cccctagcta 240
 ggcggtggat cggagcctgt atcagaaatc gaaataatat aagactgtct tcaacggatc 300
 aactgcccgc tccccacgc taaatttggg ggctacagtg cacacgctag ccgatcaacg 360
 gtcacgcta ccaggcgctc tacgcggatg tgccccctag ccagcttctc tctccccctc 420

gttctgtggt gcctctctca ccctctctaa tattgttcac gtgggcccac ttccaattat 480
t 481

<210> 17415
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C2

<400> 17415

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atttgcctta tccggtagca agcttgttcc taagacgggt gagattgcct ctgaacctaa 120
ctaccagggtc actggtggta tggatagtga gcaaagaatc atctttttcag aaaagatccg 180
ttgtgcagta gaacaatcaa ctgcacaggc taaagggtgca agccttgact caatggaggc 240
agttaagcac aaggaaggcg tatggagcaa tctatccaca atctcaagaa acaagttatc 300
tccagagggtc gaagagaagc ttacctcagt tgcagcagct gctgaagcag cagtttctgt 360
tgcaaaggca gctgcagaag ctgccaagat ggcgtcagag gctgcattgc aggcgaaaat 420
aatggcagag gaaactctta gctctttttac a 451

<210> 17416
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C5

<400> 17416

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cgagaagtac ctgtcggaga aggcggcggc ggcggtgcag gcgctgctgc cggagtcggc 120
ggtcggcgag ctgtcgacgg tgtgcccgtg ggcgggaccat gtgcgctggc actaccactg 180
ggccagcccc ctccactacg ccaacacccc ccaagtctgc aacttcaagt attctcggga 240
ctgccacaat tctcgtggcc agcaagggat gtgcgtcgtc ggggctatca acaactacac 300
ggaccagctc tacagctacg gccagaagac ttcgtataac ctgactgaga gcctgatgtt 360
cctggcacac ttcgtcggcg acgtccacca gccgctgcac gtaggcttcg aagatgacga 420

gggcggtaac accatcacgg ttcactgg

448

<210> 17417

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C8

<400> 17417

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ctgatggccc ttgtcgtaac tgctatgggc tgtgtcatgt acactacttc agcacaagca 120

ggaaggagtg tctacaactc gtacgaacct gatggaaggg gtggatacaa ctctgtagtc 180

atcaacggct gtggcagacc ttagctaggc ggtgtatcgg agcctgtatc agaaatcgaa 240

ataatataag actgacttca acgtatcaca ctgactctcc gcttagctaa atctgccgtc 300

tacagtgcac actctagccg atcaacgggt cacgctacca ggcgctctac gcggatgag 359

<210> 17418

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C9

<400> 17418

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agagggtacgg cccgggtgtcc aagatgtcgg tgctgggctc gccgacgggtg ctgctggccg 120

ggacggaggc caaccacttc atattcacca accagggcct catcctcacg cagacgcgcg 180

cgctccgttc cctcctccgc cgctccatcc tcacgctcac cggcgacgac ctgaagcagg 240

tgcgcagcgc gctgcagggc tacttaaggc ctgagatggt ccgggggtac gtggggaaga 300

tggacgccga ggtcaggagg cagctcaagc tcaactgggt tggtcgcagc actgtcaacg 360

tcctgccgat ggcgaggagc cttacactag gggtcactctg ctccgtcgtc ttcggcgaag 420

aagcagccgc catagt 436

<210> 17419

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D6

<400> 17419

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cttcgcgtgc ctctgctcca cgtgggcagc gcacacgact ggagccgacc atccgcctga 180

cgttagagcg cgcggctgtc gacgacgccg acgggacccg gtggtcctgt ctgatcgcgc 240

tatccaacgg gtactacatg taccgtcacg agtcggacat ctgccatgca taccagatca 300

tgatgatggg cgcacttaag gacgtgaaca tactcgtctg catgtacat gacatctc 358

<210> 17420

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D8

<400> 17420

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caacaatggc agcagcgacc ttatggaggc gggacacccc ccacaagacc taactcacac 120

caatcacaaa accgttatgg taccttagac agaagttcta acaagaggtc ctcaggtcac 180

ggccaatact aatccctaaa tgcataggcc cttattgagt aaaggggaaa tgtaatccaa 240

atccttgaca aatcactaag caatgccttc atccaaacaa aacccttac tgttgtggcc 300

ctatccttgt tagtaatcac caacaatgc cttagtacaa acaaccctt actgttatag 360

tctgttcct gttagtaaaa attatcaggt atcatgaatg atgtcacctt agccagtgac 420

ctactacaag cttcttggtc gatttatcaa gaac 454

<210> 17421

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D9

<400> 17421

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 atctgttgct gctgcgtgcc agtgcgtgat cactgctgat gattctgaag catgactttc 120
 tctaggaaat gctgctaata cttgtaaggg cggataccag ccatgacgac gcagttacac 180
 gcacgctgct cgggagatgc ttacagtaac gctgacatga cttagcacgc tgcagcagtc 240
 gcacgtccat gctggaaaag atccttgtag tcatgatatg gcttctgcgt aaggaatccg 300
 cagaagctag cgacgaccgg atgaccattg ctgtgcgaat gatatt 346

<210> 17422
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E7

<400> 17422
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 cggaagaact caagcccttt gggaagcagc tcagggacaa atacgtggag acacagcagc 180
 ttctcctcca gatcgctggg cacaaggata ttcttgaagg cgatccattc ctgaagcagg 240
 ggctgggtgct gcgcaacccc tacattacca ccctgaacgt gttccaggcc tacacgctga 300
 agcggataag ggaccccaac ttcaaggtga cgccccagcc gccgatgtcc aaggagtctg 360
 ccgacgagaa caagcccgcc ggactgggtca agctgaaccc ggctagcgag taccgccccg 420
 gcctggaaga cacgctcatc ctcaccatg 449

<210> 17423
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-F10

<400> 17423
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 gattgggtgta aggtaccacg ggctagctgt tggatcgggg aagcttacia tgtcaacggc 120
 tgtgggctgt cactgcttga agctgctgat gaaagtcaaa tctatctcta gacagggaaa 180

actcacctga taaaggctca acttgctgct ataggcgctc ctattatagg ggattctgca 240
 tacatgactg catcaatgac agctattgtc aaccaagca taaacgcatt cacagagaga 300
 ggctcagtta caacagtga caggtgaa 328

<210> 17424

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-F5

<400> 17424

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 atacaacata catttccagt gctagccatt cagaatgcag caacggattt tgattgtgca 120
 tacaacccta gcttatatgt tcaagtctca agaaaacagt ttgaactaaa aaaaaaaaaac 180
 aaaaaaaaaat aaagaaatat aaaaaaaaaat aaaaaaaaaa gaaaaaaaaat aactaaaata 240
 aaaaatgaat acaaatgaaa gatagaaagc acattctata acttaaaaaa attgaaagaa 300
 ccattatatg ctccaattac atgaaaagtg attgaagagg tgagggccat ttttaagtccc 360
 ggtattacat attggtagcg tatgacatat tgtttgcaaa ctgtcccatt cttttaaatc 420
 gatcagaa 428

<210> 17425

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-F7

<400> 17425

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 acataccaaa actggattca gttattcgca tggctgaaat ggatcctaga gtgtgtgctt 120
 atttacctgg acccaactgc cactggtgct attgtgagtt gggcatctca aaagttctcc 180
 actgctgtct ttttcttata tgagcagatt catcctgatg atgcatttgg ggagcaaatg 240
 attagaaaatc ttgagagtag aggatgcccc cttctcggtg taaatgctac accaaccttg 300
 agtcacaagg agaaactttt tcttggcaat ggatggcaga gagccgttgc atgggatatg 360

ctgaaaatct ataatgactt cattgacagt caagaaagac gcaggatcga acggttagac 420
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 atcaa 485

<210> 17426
 <211> 139
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-054-Q1-K1-F8
 <400> 17426

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 cttacctcag ctggagtcac gcattcgcac ggatgacacg gatactagag tgacgtacat 120
 attcacctgg acccgactg 139

<210> 17427
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-054-Q1-K1-H5
 <400> 17427

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 cttgcggtgt cactggctgg tagcctgagt gtgagtgagt gatcgagcta gctgagctcc 120
 gatcctcgct agctaggata ccgccatacc acaagtcttc ttcacaagtt taggagtgac 180
 agcaacaaga gatcgatggc ctctgccacc gtgctcaagt cctccttcct tccaagaag 240
 tccgaatggg gcgccaccag gcaggccgtc gcgccaggc cgtccaccgt ctccatggtc 300
 gtccgcgcct tcgcctacgc cgatgagctc gtgaagaccg ctaaaacgat cgcgtcgccg 360
 gcgcggggca tcctggcgat ggacgagtcg aacgcgacgt gcgggaagcg gctggcgctcc 420
 atcgtgctgg agaacacg 438

<210> 17428
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H7

<400> 17428

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caactggtgt gtaaaagaaa acatggtgca tgtaaactct tcgaattcaa agtagatcat 120
ggcaatctct ttaaaaagta gaatgaggtg ataatcacat atttgcattg caaggtatat 180
atacccgttg taagttggca agctcaagga cagctgtcat gccatcagat gatatgccct 240
cggttaccag aaaaccttta tgtaagaggt tgtgcctttg tgaaaacaaa tattccccca 300
ccaccaactg aacgacccat gagcatatca cgatcaaggt aagacagata atataatcct 360
ccaggtgatc gtctttcagg accactaaca gga 393

<210> 17429

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H8

<400> 17429

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tttccctcc tctccttcag cgacgagcgc tgtccacacc ctcgatatcc ttccctcgg 120
accgggaggc gagcagcagc ctccagcgcc tgccacgcct gccggtctcg ttattggtct 180
tcattcctgc aggaggattc gccatgtctg acatggagtc cgtcgcagct cttatgaact 240
cgacaagctc caagatacag cagcttcagg aggcatttgc tgagcttgag agccagagca 300
cggttttcat gaacctcaag tggaagcagc tttgagacca ctttcgggggt cttgaacagt 360
ccctcaagaa aa 372

<210> 17430

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-B7

<400> 17430

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aggtggtctt gatggcgccc gctgtagaag ccgtgaagga gacaggctcg ttccatatgg 120
 ttectgcctt gaacgaaagg atactgtcat ccatgtccag gaggtctgat gctgcacacc 180
 cttggcatga tctggagata gcgtcctggg gcttcaacca tattcaactg cgtcattgag 240
 ataccaaggg gcagcaaggt taaatatgaa cttgacaaga aaactggact gatcaagggtg 300
 gaccgtgtgc tgtattcgac agttgtttac cctgacaact atggattcat tcctcgact 360
 ctttgcaag acagtgatcc ttttgatgta ctgggtatta ttcaagaacc t 411

<210> 17431
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-K2-H5

<400> 17431

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 ttgtcatctg cctctccctg atcaatcacc ggcataaggc cgatagcctt cgcacgtagg 180
 aaacagcctg ggataacagg ctctgcatt ataaccagta catccaaagg atcactgtct 240
 tcacaaagag tgcgaggaat gagaacaagg aggttgctgt gaacgacttt ctaccagcga 300
 gcgccgtta tgaagccata cagcactcta tggatctgta tgctacatac atcgttgagg 360
 gcctgaggag gtaggattct gatggctagg aaagtgggga ggatgttgac gaaaaactgg 420
 gag 423

<210> 17432
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B3

<400> 17432

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 ccattcaaag cctatgtgag ttgtccttga aggttcagaa ctttttggcc ggattaaaaa 120
 agttcaggat tccttggaaa aggtgaaaag gattgtgaac cctgggtgct cgcaggatgt 180

tcttaaagcg gcgctgagtg ccatgtcttc tgtgacggaa aactgaaca tcatgacttc 240
atcttctacc ggccagactc cactgagtca ttaggtacca tttcatggta tggatcataa 300
tccccacttt tttcagtggg ggcgattaac gagtttagga acagcaaccc tggatcata 360
cgggttattc tttttgtagc cttttggaga gttctatcgg ttttggattc ggtagtttat 420
g 421

<210> 17433
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F12

<400> 17433

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accgagtcgt ccgcggaatt gatgtgctct accccaagtt caacatcctg tcttctggcg 120
cggacctttc catctacttc ccgtacactg agtcgcacac aaagctgaac tgacttaa 178

<210> 17434
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C5

<400> 17434

tgcagatgaa ccatgccgac ttcacatca ccagtacctt ccaagagatc gccggaaaca 60
aggacaccgt cggccgggtgc gagtcacaca tggcgttcac aatgcctggc ctgtaccgcy 120
ttgtccacgg cattgatgtg ttcgacccca agttcaacat cgtgtctcct ggcgcggacc 180
tgtccatcta cttcccgtae accgagtcgc acaagaggct gacctccctt caccgcggaga 240
ttgaggagct cctgtacagc caaacggaga acacggagca caagttcgtt ctgaacgaca 300
ggaacaagcc aatcatcttc tccatggctc gtctcgaccg tgtgaagaac ttgactgggc 360
tgggtggagct gtacggccgg aacaagcggc tgcaggagct ggtgaacctc gtggtcgtct 420
gcggcgacca tggcaacctt tccaaggaca aggaggaaca ggccgagttc aagaagat 478

<210> 17435

<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-033-Q1-K1-D2

<400> 17435

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agggggtctt gatggcgccc gctgtagaag ccgttaagga gacaggctcg ttccagaagg 120
ttcctgcctt gaacgaaagg atactgtcat ccatgtccag gaggtctgtt gctgcacacc 180
cttggcatga tctggagata ggtcctgggtg ctccaacat attcaactgc gtcattgaga 240
taccaagggg cagcaagggtt aaatatgaac ttgacaagaa aactggactg atcaagggtg 300
accgtgtgct gtattcgtca gttgtttacc ctcacaacta tggattcatt cctagcactc 360
tctgtgaaga cagtgatcct ttggatgtac tggttataat gcatgagcct gttatcccat 420
gctgnttcct acgtgcgaag gctatcggcc ttatgcc 457

<210> 17436
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D1

<400> 17436

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acggaaacct tgttgcgtgt ttgctcgccc acaagatggg tgttactcac tgtaccattg 120
cccatgcgct tgagaaaact aagtacccta actccgacct ctactggaag aagtttgagg 180
atcactacca cttctcgtgc cagttcacca ctgacttgat tgcaatgaac catgccgact 240
tcatcatcac cagtaccttc caagagatcg ccggaaacaa ggacaccgtc ggccagtacg 300
agtcacacat ggcgttcaca atgcctggcc tgtaccgctg tgtccacggc attgatgtgt 360
tcgaccccaa gttcaacatc 380

<210> 17437
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-D4

<400> 17437

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agcgctacat ctgcgacacc aagggcgctt tcgtgcagcc tgctttctac gaggctttcg 120
ggctgacggg ggttgaggcc atgacctgct gcctgcccac gtttgccaca gcctacggcg 180
gtccggccga gatcatcgtg cacggcgtgt ctggctacca catcgaccct taccagggcg 240
acaaggcgct gccctgctc gtggacttct tcgacaagtg ccaggcggac ccgagccact 300
ggagcaagat ctcccagggc gggctccagc gtatcgagga gaagtacacc tggaagctct 360
actcggagag gctgatgacc ctaccggcg tgtaggggtt ctggaagtac gtgtccaacc 420
tggag 425

<210> 17438

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C9

<400> 17438

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ggagctggtg aacctcgtgg tcgtctgcgg cgaccatggc aacccttcca aggacaagga 120
ggagcaggcc gagttcaaga agatgtttga cctcatcgag cagtacaacc tgaacgggca 180
catccgctgg atctccgcc agatgaaccg cgtccgcaac ggcgagctgt accgctacat 240
ctgcgacacc aagggcgctt tcgtgcagcc tgctttctac gaggctttcg ggctgacggg 300
ggttgaggcc atgacctgct gcctgcccac gtttgccaca gcctacggcg gtccggccga 360
gatcatcgtg cacggcgtgt ctggctacca catcgaccct taccagggcg acaaggcgctc 420
ggcctgctcg t 431

<210> 17439

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-F9

<400> 17439

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accatgatgt tgaacgacag aatccgcagt ctcaagtgtc tgcaagggtc gctgaggaag 120
gctgaggagc acctgtccac cctacaagct gatacccat actctgaatt tcaccacagg 180
ttccaggaac ttgggtctgga gaaggggttg ggtgattgcg ctaagcgtgc acaggagact 240
atccacctcc tcttggaact cctggaggcc ccagatccgt ccaccctgga gaagttcctt 300
ggaacgatcc ccatgggtgtt caatgtcgtt atcctctccc ctcatggnta cttcgctcaa 360
gctaattgtct tgggttaccc tgacaccgga ggccagggtg tctacatctt ggatcaagt 419

<210> 17440

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D10

<400> 17440

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gaaatcgagg agctcatcta cagcgacgtc gagaactccg agcacaagtt cgtgctgaag 120
gacaagaaga agccgatcat cttctcgatg gcgcgtctcg accgcgtgaa gaacatgaca 180
ggcctgggtg agatgtacgg caagaacgcg cgcttgaggg agctggcgaa cctcgtgatc 240
gtcgccggtg accacggcaa ggagccaag gacagggagg agcaggcgga gttcaagaag 300
atgtacagcc tcatcgacga gtacaagttg aagggccata tccggtggat ctcggcgcag 360
atgaaccgtg tccgcaacgg ggagctgtac cgctacattt gtgataccaa gggcgcattc 420
gtgcaacctg cgttctacga agcgttc 447

<210> 17441

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-G5

<400> 17441

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 ggacagcgac gtcgagaact ccgagcaciaa gtctgtgctg aaggacaaga agaagccgat 120
 catcttctcg atggcgcgctc tcgaccgctg gaagaacatg acaggcctgg tggagatgta 180
 cggcaagaac gcgcgcctga gggagctggc gaacctcgtg atcgtcgccg gtgaccacgg 240
 caaggagtcc aaggacaggg aggagcatgc tgagttcaag aagatgtaca gcctcatcga 300
 cgagtacaag ttgaagggcc atatccggtg gatctcggcg cagatgaacc gggccgcaa 360
 acgggagctg taccgctaca tttgtgatac caaggcgca ttccggcagc ctgcgttcta 420
 cgaagcgttc ggctgact 439

<210> 17442
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-G2
 <400> 17442

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 gcgtccgcaa cggcgagctg taccgctaca tctgcgacac caaggcgcc ttcgtgcagc 120
 ctgctttcta cgaggcttcc gggctgacgg tggttgaggc catgacctgc ggctgcccc 180
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 gccaggcgga cccgagccac tggagcaaga tctcccaagg cgggcttcaa cgtatcgagg 360
 agaagtacac ctggaagctt tac 383

<210> 17443
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-G12
 <400> 17443

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 accgtggggc agtacgagtc ccacatcgcg ttcactcttc ctgggctcta ccgtgtcgtc 120

catggcatcg atgttttcga tcccaagttc aacattgtct ctcttgagc agacatgagt 180
gtttactacc cgtatacgga aaccgacaag agactcactg ccttccatcc tgaaatcgag 240
gagctcatct acagcgacgt cgagaactcc gagcacaagt tcgtgctgaa ggacaagaag 300
aagccgatca tcttctcgat ggcgcgcttc gaccgctga agaacaatgac aggcctgggtg 360
gagatgtacg gcaagaacgc ggcgctg 387

<210> 17444

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-015-Q1-K1-B9

<400> 17444

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ctcgtggctc aagcgggaagc tcgccaccgc caccggcgacc tccagcggca gcgatgctga 120
gcgggctgac aagcgcgcaa gccctggccc ggggagccc acggcgctcg accgcagcga 180
cctcagccac ggctgcggcg ccgcgcaggt gttccgtccc gtcccgcgcg ccggaggctt 240
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cccgtcacc tcgtctctcc tctcgtgccc ggtgctggac cagtcgccgt cgggcttnca 360
ccacgacagc gcccgagacc ac 382

<210> 17445

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-F6

<400> 17445

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gtgaagttca gcgctccaac ggaaggagaa gtcactgcag gaggagaaca aggttctgca 120
gaaggagctc gcggagaagc agaaagacca gcggcagcaa gtgcaacggg accgaactca 180
acagcagacc agttcgtctt ccacgtcctt catgttaagg gaagctgccc caacaacaaa 240
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gcaggctcgc gttggactgc caccatggat gcttagccat ctgagctgct gaaggtttgc 360
 cctcaccgtc gcgatgtgat agcccaaaat ccagcaagtc ttccccggac cccggactgt 420
 ccccgcttct ccgcctggtg cagtatcgtc gtgatcgca gaagcagcag 470

<210> 17446
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-045-Q1-K1-B11
 <400> 17446

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 cctgaagaat ctctgcacac cttaggaggc ttactttttt ccccttttct gttactacat 180
 aattcggaat tagatttgtc aaagaggagt gagtgaagtt gttcctcggt gtgactgtac 240
 cgggcaaggt gtcgtccccg ccgtgcttaa ctttatgatg gaatttcttt tcagagcacc 300
 taccacctga agatttgtgg gatacgata ctacttcgg aaagaatgta gatagcaagc 360
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<210> 17447
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-A5
 <400> 17447

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 ggcgagcgtg agattcagag aaccatgttg gagttgttaa atcagctgga tggttttgat 180
 tcaagaggag atgttaaagt tattctagca acaaatcgta ttgagagtct tgatccagcc 240
 ttgcttcgcc caggctgaat tgacagaaag attgaattcc ctttacctga tgtcaagact 300
 aggcggcgca tcttcagat acacacatcg aaaatgacac tggctgatga tgtaaaccta 360
 gaagagttaa ttatgtcaaa agatgagttt tcagggtgctg acatcaaggc catttgact 420

gaagctggc

429

<210> 17448

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H3

<400> 17448

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ggtgaatcaa ctggatggat tcagcatcga tgagagaata aaggatcatag ctgctactaa 120
ccgtgctgac atccttgacc ctgctctgat tcgatctgga cggttggacc gaaagattga 180
gttccctcac ccatccgaag aagcatgagc tagaatcttg caaatccatt caaggaaaat 240
gaatgtaa at cctgatgtca actttgaaga attggctcgc tcaactgatg acttcaacgg 300
aacacagcta aaggcaat ttt gtgtagaagc tggtagctt gccctacggc gggttgctac 360
agatgtaact cacgaggttt tcaatgaatg gatcgtacag gttc 404

<210> 17449

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-F1

<400> 17449

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ggagtctgga actggcaacg gtgacagtga agttcagcgt actatgcttg aacttctaaa 120
ccagcttgat ggttttgaag catcaaaca aattaaggtt ttgatggcaa cgaacagaat 180
agacattttg gatcaagccc ttctgaggcc tggccgcata gacaggaaga ttgaatttcc 240
aaatcctaac gaggattcac gtttcgatat cttgaagatc cattcaagaa aaatgaactt 300
gatgcgtggc attgatctga aaaagatcgc ggaaaagatg aatggggcct caggagctga 360
gctcaaggcc gtctgcacag aggctggaat gtttgctctt cgtgagagaa ggggtgcacgt 420
ta 422

<210> 17450
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-B3

 <400> 17450

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 cgccgcaacg ggctgctcaa gaaggccttc gagctctccg tgctctgcga tgctgaggtc 180
 gggctcgtcg tcttctcccc gcgcggcaag ctctacgagt tcgccagcgc cgccagcctc 240
 cagaaaacaa ttgaccgcta caggacatac acaagggaaa atgtcaataa caagactggt 300
 caacaagata tacagcaagt caaagcagat gccgtaagct tggcaagtag actcgaagcc 360
 cttagaaaga ccaaacgaat gtttctgggt gaaaatttaa aaga 404

<210> 17451
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-F6

 <400> 17451

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 aatacatggg tggtcagtgg aactccacag acaaagaagc tgcaagatct gttccgctcg 120
 attatcaacc agcttgggtcc tgacaacctg gacaatctgc ggaggctcgc agagcaattc 180
 cagaagcagg cctctgggtgc ttctgggtgca gaggctggtg ccagcgcgtg ggctgttcag 240
 gacgatgatg atgacgttcc tgagcttgtc cctggagaga catttgagga ggccgcggaa 300
 gagaaaaagg agtcctcatg attttgctac atgcctgctg ttgttaaacc atgccattag 360
 aagggaacctg ttgagaactc tgacctacct tatttggtgc tgtgggactg gttatgtcat 420
 gatcg 425

<210> 17452
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-F3

<400> 17452

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cgtcaccatt gctgcgacga gagtgagcgg gagagggtag gtggcgaggc ggcggagatg 120
gggcgggggc cggtgcagct gcgccggatc gagaacaaga tcaaccgcca ggtgaccttc 180
tccaagcgcc ggaacgggct gctgaagaag gcccacgaga tctccgtgct ctgcgacgca 240
gaggtcgcgc tcatcgtctt ctccactaag gggaagctct acgagtactc tagccattcc 300
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aacc 364

<210> 17453

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-C6

<400> 17453

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gagagctgat gagaatgtgc tgaagcttgt ggaagaacaa aaagtatgta ccttggctcc 120
tgtgatatga tgcttttaggt ttcaaacaat gtgtcctatg gtagtcttac tgtatggaaa 180
ctacagaggg agaaacatgc tgcgttaaag aagattctga tgttggaaaca acaattggat 240
gcaaaaacaaa agcttgaatt agaaatacag cagttgaagg gcaaaactaaa agtgatggag 300
catatgccag gtgatgaaga ttcagcgtca aagaataaaa ttaatgagct gagtgaggca 360
ttgcaagaaa agatagatga actggatgga atggagtcac ttaaccaaac tctgggttatc 420
aaagaaagca aaagc 435

<210> 17454

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-A11

<400> 17454

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cgctccagc accggagacg cagctgccgc gggcgggagc ttggacgtgc tactctgctc 120
tcatctcggt tccgcgcagg aattgttcac aatggcccgc gtgtatgttg gcaacttggc 180
ttcacgggtg acttctgggg aactcgaaga tgagttccgt gtgtttggag ttctgcgaag 240
tgtttgatt gcacgtaaac cacctggctt tgcatttatt gattttgacg acaggaggga 300
tgccgaggat gctattcgtg atctagatgg taagaatgga tggagagttg aactatctcg 360
taattccagt ggtcgtggtg gtcgtgatcg gtatgggtga tctgagtcga agtgctatga 420
atgtggtgag actgggcact ttgcacgtga atgtcc 456

<210> 17455
<211> 424
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-039-Q1-K1-A5
<400> 17455

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cggccatggg gacgtccttc cagggggacga ccaccaagtg caccgcctgc gacaagacgg 120
tgtaccttgt ggacaagctc accgccgaca accgcatcta ccacaaggcc tgcttccgct 180
gccaccactg caagggcacc ctcaagctcg ccaactacaa ctccctcgag ggagtgtctt 240
actgcaggcc tcacttcgac cagctgttca agaggacagg gagcttggac aagagcttcg 300
aaggaactcc caaggttgtc aagccagaaa gaaacgttgg gaatgagaat gctactaaag 360
tctcaagcgc ctntgctggc accagagaga aatgtgttgg atgcagcaag acagtctatc 420
ccac 424

<210> 17456
<211> 379
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-A5
<400> 17456

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agagctgttt gaagtgtgc catggagggt gcaccatcag cccttctaac tacagcttcc 120
cctcgtgcgc aatgtagtta gaagggtggt tgggtgcaagc accaccacat ccagctgac 180
aaggagaagg ggaacttcag ccagcttgag aatgaccacg agaagacatc acaggctggg 240
tactggagg acgatgaaca agagtattga tactgagca caaccacaga tgaataatga 300
atcctcttgc atttgcttag agcactatgt atttctgtgg cgtgggtcga tttcagtttt 360
accaatggag gtcattgt 379

<210> 17457

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F4

<400> 17457

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ttcttatgca tgcagcagcc ataagcattg ctactagggt ttcattgcggg gcgaagcagt 120
tgggtctctgc cgcctgaacg ccgccggaat ctgcgaggcc tccccgagct gcgtccgtcg 180
tcagataagg cagccgccg cagcgcaatg ccggttccgc ttgctccgta cccagctcct 240
ccggcgccat tcacgccgcc caatggggcc cagagccagc tcgtctgcac cgggtgccgg 300
aacctcctca tgtaccagc tgggtgcgac tcggtctgct gcgccgtctg cagcacctgc 360
accggcgtgc cggctccagg aactgagatg gcgcagctag tgtgcggaag atgccacacc 420
cttctcatgt acatagc 438

<210> 17458

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-H10

<400> 17458

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gggaagaaag ccagtgggga catgcctgcg acaacaggaa gcggatgctt cgaatgcaac 120

atctgccttg attttgcac agaaccagt gttactttct gtggtcatct ctactgctgg 180
 ccttgatatc acgagtggct ggcacctggg gtggagtcag ctgccagcga caacagcagt 240
 tcggcaaggc ggcaatgtcc tgtatgcaag gcaacactct caacggacac ccttggtgcca 300
 ctatacggcc gtggaggcaa ctcaaagaag tcacttgatg gcatggccat cccgcgccgt 360
 cccatggtac accgggagac tgttgaggag caacagaatg cacagagcaa tgtcaatgac 420
 cagcactacc accagagcat ggaagacaac 450

<210> 17459

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G1

<400> 17459

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 taacaaaatg cttagcacia acagcaciaa agactttcag tgattttgaa gaagctgttg 180
 aaaaggatgc aacaaagaat attcactctg atggaacagt tcacacctta acaagctatg 240
 tgatcaacta tgtaagttt ttgtttgact accagtcaac tctaaagcag cttttccagg 300
 agttcaagga agatgggaca ggttctgagc tggcagctgt aacaatgaaa atcatgcaag 360
 cttacaaaa taatttagaa gcaaaagcaa aacaatacaa ggatcctgca ttgatgcaca 420
 tatttttgat gaataacatt cacta 445

<210> 17460

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-E7

<400> 17460

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 ggctcatctt caacgcgccg ggctctggcg ccgggcagat gctcttcctc gactgcggcg 120
 caggcggcgg tcccggcggc ggcttggtcc atcgaggcgg gagaccgatg cttggccttg 180

aagaagggcg cggcgtaaaa cggcccttct tcacctcgcc agacgagctc ctcgaggaag 240
 agtactacga cgagcagctg cgggagaaga agcgccgcct caccacagag cagggtgcttc 300
 tgctggagag gagcttcgag gaggagaaca agctggagcc ggatcgcatg acggagctgg 360
 cgcgcaagct 370

<210> 17461

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G3

<400> 17461

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 agtgcccctc cctgcaagac ttccgaggta tggcgccaat gctgcggaag cgcccagca 120
 tgtactgcgg cgcggacgac gtcggcgctg gaggcgagga ggcgagctgc ggcgcgacga 180
 acgaggacga ggtgtcggac gacggctccc tgcaggccgt cgggcccggg gagaagaagc 240
 ggcggtgaa cgtggagcag gtgcggacgc tggagaagaa cttcgagctc gggaacaagc 300
 tggaggcgga gcgcaagctg cagctggcgc gcgcgctggg cctgcagccg ctgcaggtgg 360
 ccatctg 367

<210> 17462

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-G12

<400> 17462

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 ctagatacat tgccttcaga gtatgactca cgggttaagg cattggaagt agatgagaaa 120
 cctactgagg attacaatga cattggcgga cttgagaaac agattcaaga gcttgtggaa 180
 gcaatagtgt taccaatgac acacaatgac cgatttcaaa aattgtgcat tcgttcccc 240
 aaaggggttc ttttgtatgg accccctggg accgggaaaa cgctcatggc tcgtgcatgc 300
 gctgcacaga ctaatgcaac atttctgaaa atggctggtc cacaacttgt tcagatgttc 360

attggtgatg gagctaaggc tgtagaaatg cttt

394

<210> 17463

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C8

<400> 17463

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agagtacgat tcacgagtga aggcaatgga agtggatgaa aagcccactg aagattataa 120

tgacattggg ggtcttgaaa agcagattca agagcttgta gaggcaattg tactgcccac 180

gacacataaa gaccggttcc agaagttggg tattegtcct ccaaaagggg ttcttttgta 240

cggaccacca agaactggca agacactcat ggctcgtgca tgtgctgcac agacgaatgc 300

aacgtttctt aaattaactg gtccacaact tgtgcagatg tttattggtg atggagcaaa 360

gcttggtccg gatgcattcc agcttgccaa agagaaagct ccttgatta tattt 415

<210> 17464

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-H8

<400> 17464

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gggatctggt tggagtcaat aaagatagct acctataact agatacattg ccatcagagt 120

acgattcacg agtgaaggca atggaagtgg atgaaaagcc cactgaagat tataatgaca 180

ttgggggtct tgaaaagcag attcaagagc ttgtagaggc aattgtactg cccatgacac 240

ataaagaccg gttccagaag ttgggtattc gtctcctcaa aggggttctt ttgtacggac 300

caccaggaac tggcaagaca ctcatggctc gtgcatgtgc tgcacagacg aatgcaacgt 360

ttcttaaatt agctggtcca caacttgtgc agatgtttat tggatgatga acaaagcttg 420

tccgggatgc att 433

<210> 17465

<211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-D6

 <400> 17465

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 cgaagccctg ctccgccggc gatgtcgtca tccggcgccc cggccccggc ggcggaatg 120
 gccgttgacg acgcggagga cgaccagctc gcctccatgt ccacggagga tatcatccgg 180
 gcctcccgcc ttcttgacaa cgagatccgt gtcctcaagg acgagttgca gcggacgaac 240
 ctggagttgg agtcgttcaa ggagaagatt aaggaaaacc atgagaaaat taagctcaac 300

<210> 17466
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-025-Q1-K1-D8

 <400> 17466

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 ggggtggagg tcaagtcccc ggctgacaag ctgtgggcgg cgctgctga ctgcacggag 120
 ctgttccccca agatcttccc cgagcagtac aagagcatcg agaccgtcga gggcgacggc 180
 aagtcggccg gcaccgtccg cctcctcaag tacaccgagg cggtgccgat gctgacgttc 240
 gccaaaggaga agcttgagac ggcgacgac gagaacaagg tgggtgctga cagcgtggtg 300
 gacggcgagc tggcggactt ctacaagaac ttcaagatca cgctgaaggt gactccggcc 360
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<210> 17467
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-B10

 <400> 17467

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aataggggca agttcaggca tctcgttctt gtcctgggtc aggggatcgg agaagaatgg 120
gctcggaggc ggactgcgac aggatcaggg gcccgaggag ccccgaggag gacgacgcgc 180
tgcggcggct cgtggagcgg cacggcgcg cgaactggac ggcgatcggg cgcgagatcc 240
cggggcggtc gggcaagtcg tgccgcctgc ggtgggtgcaa ccagctgtcg ccgcaagtgg 300
agcgccggcc cttcacggcg gaggaggacg cggccatcgt ccgcgcccac gcgcgcctcg 360
gcaaccgctg ggccgncatc gcgcgcctnc tncccggccg caccgacaac gccgtcaaga 420
accactgg 428

<210> 17468
<211> 254
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-H5
<400> 17468

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agacaatcat cgccgaagag ctgaaacggt ttgaggcgtg gcgggactcg ctggagaccg 120
ttccaaccat caagaagctg aggtcttacg ccgacaggat ccgggcctcg gagctcgaga 180
agtgcctgca gaagatcggg gacgacgctc tcaccaagaa gacgaggaga gccatcgagg 240
agctaagcac cggc 254

<210> 17469
<211> 398
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-044-Q1-K1-F8
<400> 17469

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gattccagtt ccactccgcc tccgctgccg gtcgccgact ccgaaactcc gacagtccga 120
ccacaaggtc ttgtgcggga tccacagaag gatgagtga gaggataaga ctgctgcttc 180
tgctgagcag ccgaagaggg cccctaagct caatgaaagg atcctctctt ctctgtccag 240

gagggtccgta gctgctcatt cgtggcatga tcttgagatc ggtcctgatg ctctgctgt 300
 tttcaatggt gttgttgaga tcacaaaggg aagcanagtt aaatatgagc ttgacaagaa 360
 aactggactg attaanggtg atcgagtcct atactcat 398

<210> 17470
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-G12
 <400> 17470

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 agcttggtcc tgagagtaga tttcctgggg tcccttacat tgtttttcct ggtaatgttg 180
 gtgataacag tgctcttgct aaagtgggtga aaagtgggc tccccatct agaagttcta 240
 caaaagaaat tcttcttgat gcggagaatg gcggttatgc tgttggtgct ttcaatgtgt 300
 ataaccttga gggaattgaa gctgttggtg cagcagcaga ggctgaaaag agtcctgcta 360
 ttcttcagat tcatccgagt gctctaaagc aaggtggagt cccactggta gcat 414

<210> 17471
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-031-Q1-K1-E8
 <400> 17471

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 tattttcagc cttcaagggg gcgagggact cacgatgtca ctatcaacc tgggttagaa 180
 ggcagggccca agaattggct cgcttctggt ttgaagcttg atttagacaa gtatgtagtt 240
 ccaacaccaa acatgggctc aggtgttggt tatgcagcta gtttgactga aaatccacgc 300
 tcattattgc aaactgcgag ttcctcatat aatgatacca caaaggacat ttgcacaac 360
 tcaactaaag gcgattcatt cttgaatcac tatgttaaca ctatgaagag cacaattgga 420

gggcatgcat cgtcactgga ag

442

<210> 17472

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A8

<400> 17472

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tcagtgcana acaactgggtg gacatcatct gtcaatggat gattcttgga cactctgagc 180

gtagacatat tattggtgaa aatgatgagt ttattggana gaaggctgca tatgcataga 240

gccaaaatgt taagggcatt gcctgcatag gagagctgct tgaagagagt gaagcatgca 300

aaactcttaa tgtatgttga atgcagatga aggcttttg 339

<210> 17473

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-F9

<400> 17473

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gtgccggccg acaccgatgt ggaacgtgct cagcactactg cctatatcga cttagtccgg 180

cagaagctag atcccaagaa cgctgaggct gcgcagaact gctacaaagt gactaatgac 240

gcttgaactg atgagatcag ccctggcatg atcaaact gcggagccac acgggcggta 300

ctggggcact cagagagaaac gcatgtcttt ggggagtcag atgagctgat tgggcacana 360

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<210> 17474

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F7

<400> 17474

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cgagatgggc cgcaagttct tcgttggtgg caactggaaa tgcaatggaa cgcgagatca 120
ggttgagaag attgtcaaaa ccctgaatga aggaaatgtt ccctcttcag atgtcgttga 180
ggtcgttgtc aagcctactt atgtgttcct cccggtggtc aagagccagc t 231

<210> 17475

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-045-Q1-K1-F6

<400> 17475

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ggcaactgga aatgcaacgg tactggcgag gacgtgaaga agatcgtcac cgtgctcaac 120
caagccgagg tgccctctga agacgtcgtc gaggtgggtg tgagtccgcc tttcgttttt 180
ctgcagcagg tcaaggggct gctgcggtg gacttcgccg tcgcagcgca gaactgctgg 240
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gtgccctgng tcattttggg acattctgag cgcagagctc tgttgggtga atccagtgat 360
tttgttgctg ataaagttgc atatgcactc actcaaggtc tcaaggtaat tgcttgcat 420
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<210> 17476

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-C6

<400> 17476

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cgcgacgcta tcgagaacat gaacggcaag gagctcgacg gccgtaacat caccgttaac 120

caggccccagt cccgtggcgg tggcgggtggc ggcgggtggct acggcggcgg tcgcggcggc 180
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 cggcgcgagg gtggtggcgg cggctacgga ggcgggtggcg gctacggcgg tcggcgcgag 300
 ggtggtggtg gcggctacgg cggcggcggc ggcggctgga gggactgatg tgtgggcccc 360
 tcctggcttc ggccgagtta tcttatctat ctatagtatc gtgttaccgt tcgcttctgt 420
 caccgtgtta gtgt 434

<210> 17477
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-C8

<400> 17477
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 gctaagtctg aacaatctgc tcagaaaaca ggcgacaagg tctcaacttc tcatcctgca 180
 aagcagtcca gcaagactcc tgcagacaaa tctacaaaga cccccacagc tgacaagaag 240
 tccccaaat ctgggagcca tgctgcaag tcatgcagca aatctttcgg cagtgcgtca 300
 gcacttgagt ctcatcagaa ggcaagaag catgaagcct agagcacgtg ctataccatc 360
 tactcgttat caaaatcagt ggtcttattt ttgaacttga aaatgtccaa gtttggaact 420
 tgcccagtag tcatctgatt agtgggtgtta tttt 454

<210> 17478
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-C9

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 tgtctttggt gttgatgaca ctctgaaggc tcttgaaatg ggtgctgtcg agaccctgat 180

tgtgtgggaa aatctggata tcaacagata tgtgatcaag aacagtacta ctggggaaat 240
tattataaaa catctgaaca aagagcagga agctgaccag agcaatttcc gtgacccatc 300
taccaatact gatctcgaag ttcaggaaaa aatgtctctc ctggaatggt ttgccaatga 360
atacaagaag tttggttgct cgttggagtt tgtgaccaac aagtctcagg agggatccca 420
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<210> 17479

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D1

<400> 17479

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gccaaagccag cttgactctt ctctgccctt tgaattttgc tactctataa gtccaaaggc 180
ttctaccaat cctccgaaca taagcttcac ggcggaaggt ggaagcgtgt ttcctgtcaa 240
tgatccaata attaccatta cggactctgt atctaaccg atggcatatt gcttggctgt 300
tatgaagagc gaaggtgtta acttaatagg ggagaatfff atgtctgggc tgaaggctct 360
gtttgatcca aagaagaagg tcttgggctg gaaaaacttt ga 402

<210> 17480

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D10

<400> 17480

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ttcatgactt tcaaaacctt atccctaccc aaattaatca tattgcatat acataccact 120
ttagccagct cttgtcataa cctataagcc taaacagatc tccc 164

<210> 17481

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D11

<400> 17481

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gccatggggcg gcggcaacgc ccagaagtcc aagatggcgc gcgagaggaa cgccgagaag 120

aacaagggcg gcaaaggcag ccagctggag gccacaaga aggccatgaa catccagtgc 180

aagatctgca tgcagacctt catctgcacc acctccgagg ccaagtgcaa agaacatgcg 240

gaggcgaggc atcccaagaa cgacctctac cagtgtctcc cccacctcaa gaactagtaa 300

gcagcagaag catatgtctt gctcagctaa aagacaagta ctacatatat atatatatac 360

gctgtgtgtc aattaatggg ttctaggctg ctgctgatgc ggctgcttcg ttcgtgttgc 420

cccgctctgat tatgtactgt aacccttg 448

<210> 17482

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D12

<400> 17482

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ttccctggcg tgctctctcg cccgagcgac gcggcctccc gtagaccgag caaggcaacc 120

caccactgag aggcacgcag aggagcagga agccggagac caagatgtcg tcggtgttca 180

gcggcgatga gacggccccc ttcttcgggtt tctcggcgc cgccgccgcc ctctgtcttct 240

catgcatggg cgcagcgtag gggaccgcga agagcggcgt cggcgtggcg tcgatgggtg 300

tgatgcggcc ggagctcgtc atgaagtcca tcgtgcccggt ggtcatggct ggtgtgctcg 360

gtatctacgg gctcatcatc gccgtcatca tcagcactgg gatcaaccgc aaggccaaac 420

cctactacct ttttgatggc tacgct 446

<210> 17483

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D2

<400> 17483

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cctcaacttc gacgccttcc acggcgacaa gggccacggc ggcgtgcacg acggcaccac 180
cgtggtgctg tgggagtggt ccaagggcga caaccagagc tggaagatcc tgccctgggg 240
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cggcgagccc accgtccgca tctactgcaa ggccgacgag gggttcagcg ccacgggtccg 360
caacggcgcc gtgtgcctcg cgcccaccaa cccgcgcgac gattaccagc actggatcaa 420
ggacatgcgc cacagcaaca gcgtc 445

<210> 17484

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D4

<400> 17484

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tgttactcat acggaaggag gagtagacgc tacaagctag aacttgtgaa cacacgctat 120
tgacctctaa accaccttaa caaaatctca aaattcacgc ctgggctttg attctgcaac 180
cgtgactcgg atctgtctac catccaagtc gatgccatca aggtttgata tggcattgtt 240
gacctcctcg gcagagccat aagtgcgaa accaaacccc cttgacctgc cgctatccct 300
gtcgtagatg accttagcat ccagcacctg tccttgctca ctgaataggc tctccagagt 360
cgagttgtca acgccccatg caagggtccc caggtatacc ttgttcctg aatcgacaaa 420
gctgctgctg ccgacaccac caccaccacc ccttggtgct cttggtgc 468

<210> 17485

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D5

<400> 17485

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ctacgtgcag gtcgtggtgg ttgcaagtt ggaggtggga taaatttgga gaatgcaatg 120

tcttacctta atgaaggggc cagtcattgt atagtacct cttatgtgtt tagtgatggc 180

aagatgaaca ctgaaagggt aagaaaactt gtcgagctgg ttgggaaaca gaggctcgtg 240

ctggacctca gttgtcgaaa aaaggatggc cgatatacca ttgtaactga cagggtggcaa 300

aagttcagtg atgtgtctgt ggatgaacca acattagaat atctcgctgc ctttgcata 360

gagtttttgg ttcattggtg tgatgttg 388

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<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D6

<400> 17486

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tagacataca agattgatga gagggattca catcttaggc caacgaaagg atatgcgttt 120

cagtcaactt ctcaagttgg tgggtctatgg aatagcaaag gattgagata tttccggcag 180

gagttcgatg tacgtggtgc tgtgcctttg ggattttata gtgctgctct caacgttgg 240

gtaggagcgg gtgtcatttt accgcttgca gggggattca tgaattcgac ttcattcagt 300

ccagagaggt tttatcttgg aggttaattct tctccagtgt gcagcttggg cggaccgtca 360

tctctgctgg gtttcagatt aaggggagtt ggcccaacag aggcgcggaa gcatgtcctt 420

aataactcgg agagtgggtc ggctg 445

<210> 17487

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D7

<400> 17487

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cgcactattg ggtatagttg ggtgcggcaa gcagcaagag aacttgggaa aagtagaatt 120
tatatgggtg taccgtttat agctgagtgg gttagagaca aaggacacca cattaaatcg 180
caggttaatg ctgcttcagg tgctatttct ctaatacaac ttcaagaagg gatgaaaaag 240
atggaaggaa gcgagaacag tgaagagcaa cttatgaaga gttttgagga gaaaaaagat 300
gccatgctta gctcgctatg gaaaattaat gtggctgata ttgagtcaac actttcacgt 360
gtctgccaaag cagttctgag agataacacg gtctccaaag atgtcctgaa gctgcgagcg 420
aaagcgttga aaaagctcgg aacgata 447

<210> 17488

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D8

<400> 17488

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gggggattac cgctgctag ctgcgggtca ctagtacttt acagattctc ctgcacgaac 120
gatacccggtg cacagccatc tcacaaacac gtgctactta atcttgcgag gatcatatag 180
caccgacatt gacgatacat catgcaacga ttctacagag acaggaagcg ttgacaagaa 240
ttcagccaaa gatgtcaggc acatcttgaa tacatgcgac aggtctttcc aacgaacata 300
atgacttgac actcatgata ttgactacac tcttgagaaa tagggatatgc tctctctcaa 360
atagttggca tgaacctcag cggatatcat 389

<210> 17489

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D9

<400> 17489

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acagcggtgg cggcagctac tgtggtggca gcggcagcta cagtgggtgt ggcatcggct 120
acggcggtgg caaccgtggc ggccgctact gcaactccga cgggaactgg aggaactgac 180

cggtggggcc cgcggggcca agttatcctg atcgctaccg agttgtttac cctagtccag 240
 agtgtttatc ttcgttcgtc tcgtgttcgt tggtgcccac ctgtgttttt gattgaaggt 300
 cgctctgtgt cagatgctag tgctgtgttc atactcagct ccagcagacc catgcatcaa 360
 ccagcatgga ctgcggat 378

<210> 17490
 <211> 468
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-035-Q1-K1-C5

<400> 17490

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 ctgtgggttat tgcgggggat ctaggtgcaa cacttgact cccagacatc agaggaaatg 120
 aattaggaaa taagcgaaaa ttccaagaca ttacaatgt ggataagttc gtgaggagcc 180
 tggatggtgt tgtcgaagta atagaggata tacctgatga agtgagtgtc aagaagccag 240
 cagtcatcag agtaccgaac cgtgtgactg aaagcttcat cacaggcacc atccagccca 300
 tcttccaaaa aaacaagtac ttaagactag cggtcatttt ctcttcgta agtttaaggc 360
 caaaggagac gaacaacatg gacatggacg caactgcttg ccttgcgatg ttcggtggcc 420
 tcgagctgaa gcacgaatat tctgaggtgg ccagaanaat gctggata 468

<210> 17491
 <211> 467
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-B10

<400> 17491

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 tcatcccagc tgcggtcgcc gccccgcgt acgagaagcc cccgcaggct ccggcgcccg 180
 aggccgcaa ttactatgcc gacgggggtcc cggctgtgat gggcgagccc gtgtcgcccc 240
 acgccttctg cggcgctccg cgggagagct ggaactccg gatcctctcc tgcctcgccc 300

gcaacgacga gttctgcagc agcgacgtcg aagtgtgtct tcttggaaacg gtagcaccat 360
 gtgtgctcta tggtagcaat gttgagagggc ttgctgctgg acaaggcaca tttgcaaaca 420
 gctgtttgcc ttacactggg ctgtatttgc ttgggaactc tctcttt 467

<210> 17492
 <211> 262
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-B11
 <400> 17492

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 cttgggcacg gggtagcatga ccggcttggt caccgacgtg accgcctact tcttcgacaa 120
 cgcggtatgcc tgcggcgggc aaaacgtggc ggactaccgg gcggtcggat ccgcgaacga 180
 acaaatctac ggcgcctctgt aaatcttcgg acgccgcacg gcagactacc gggcgacgg 240
 atccacggac gaacggatct cc 262

<210> 17493
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-B12
 <400> 17493

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 gcgacaacct cctctcctct cctccccctgt tatgccgcgc ccagcagcga ggcattggtg 120
 agaaggcgag gaccatggcg cgcaggctgg agatccccca gtggaaggcc gactgcctgc 180
 cgtcgccgac gagcccgctg gaccgcgcgt cggcgtcacc ccatgggtgg cgccacctcg 240
 acgccgtatg acgaggcctg gggctcggga tcttggcagc gctcgaggcc gagggccccg 300
 cgcagccccg gccaggggtg tccatccccg ggcgcgcagc gcggctggag gtgtcagagc 360
 tcgagtgcac cgggcgctgc gccaccagcc tgtg 394

<210> 17494
 <211> 483

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-B2

<400> 17494

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atcatcgtca ataattaccc aagttaatag gaaacataca ttttggaaca ctgaactctg 180
ttgtgtgtgg agaaaatggc acgattatgg ttatcttttag tatggctcta catgtaatcc 240
aacacatgct ctgcaagaaa gcttagctca gattgcctca tttgagactc tacagttgag 300
ctgaataggt tcattgagga gataaaagat gcacatTTTT atccgaaaac cttttgcaaa 360
tcttctcgca tattagactc tgaatatgcg ccacatTTTT cttttgcgtt tccagagtaa 420
agaagcagaa actcggaaca ttttaacctt acatggtcac ccctatttgc atctttttaca 480
atg 483

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<210> 17495
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-B3

<400> 17495

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cggcagtcta tcgaggcagc gagaacgaac aactgggacg gcgtctgggg aaactgagat 120
catgcctatg ggtgcaacga gttgaatcat atagaacaag tgcaagggct atgacctatg 180
ggagtttgct tgcccttttga ttcattcaaaa agaagattgc ggccagatac cgcctttggt 240
ggcaacttat gggaagctgt gaagaagaaa ctgctgggcc tatcttgctt ttcgcagctt 300
tgctttgatg tacctgctag ggccatggcc catgacagtg gtaggtgttt cttaaatcgc 360
aactgtaagg atttggtgaa aaaacggttc acagtgcact gatatatatg tagctgcttg 420
ctgctgctgt gatatcaatg ggggtatcga atgtttgtat at 462

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<210> 17496
 <211> 326

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-B4

<400> 17496

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 ggtgaggttt tgtcatgaga gtatgattct actagctagc atccttagca cacttgagat 120
 gttgttgact cgtgtcctag tgtagtgtac tctgtgtata tccatgtatg cacagtgata 180
 tatgtcggca ctggaacatg ttaacaccaa atgtttcaag cttcgtactt ttgcctgatg 240
 tggacatgca tgcagcaggc atcccagtac tacacctgct gttgaacttg aacactactg 300
 tattcagcct atgaatgatt catgct 326

<210> 17497
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-B5

<400> 17497

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 ggggccgagt agctcctccg cgctccgccg ggaccgactt gccgctggcc gccaggggct 120
 ccctcgccca ggaccggctc cgccgtccaa ccgtcctatc ccctccggcc tccgcccaga 180
 tatgggttct tgggagggcc aagctaggca gcttttggtg gatgaggaag aagatgatga 240
 agagtttttc tttcttcttc tccctgctat actttcattc ctctctgaag agcaaagcga 300
 aactggagca gctattgaaa gtttcgtgga attcaagagg agcactgcag ccaaaacgct 360
 ggaagctctt gaagaaaaga agaagcatga tgaagaattc t 401

<210> 17498
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-B6

<400> 17498

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agcggtagaa gacaagaatg gaacttctga agtacaagat gctgctgaaa atccagaggc 120
agaagaaact aacactgctg cagaggaaac acctgctgta gaggaagcaa gtgagactac 180
cgaggaggaa gaggctgaga aacctgagat caagatcgaa acagctccag cagattttcg 240
tttcccaaca acaaaccaaa caaggcattg tttcacacgc tatgttgaat atcacagggtg 300
tgtggctgca aaaggtgagg atgcacctga gtgtgataag ttcgccaagt actatcgatc 360
cctgtgcca ggtgaatggg ttgatcgctg gaacgagcaa cgcgaaaacg gcaccttccc 420
tggaacctg taatcctaca atgc 444

<210> 17499
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-035-Q1-K1-B7
<400> 17499

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cgttgcagat gagttgatca acgctgccaa gggctcttcc aacagctacg ccatcaagaa 120
gaaggacgag attgagcgtg ttgccaaggc caaccgttga gtggagcttg taccctgggtg 180
cacttgcaact agaactacgt ttctggcagt cgtatttttt tcttgtgttt ttacccatgt 240
ttagactttg agacctatat ctaaggtttt ggttctcagt gaacaatgaa aattactgtg 300
aaatgcagtt gttttgggtgc agaaatgcgc actgagatat tctgcttggtg aatttgtgag 360
tgctgttggc gtcgcgctg gcttgccgat gtagtatctt ttgtcactc 409

<210> 17500
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-035-Q1-K1-B8
<400> 17500

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agagtacctg catgaggtgt gcctaccccc agtggtgcat agtaggacct tcaaggcatc 120
taacatcctg cttgatgaag agtacagccc gcatttatct gactgtgggc ttgctgctgc 180

tctcactact gctgtggtct ccgctgaagc ggttggtctc tttggatata gtgctcctga 240
 ggtcgcctatg tcaggaaacat aactgcaaa gagcgacgtg tacagcttcg gagtagtgat 300
 gctggagctg ctgacaggcc gcaagccact agacagtgtg tgtgtgtgtg tgtgttttat 360
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 gacatcgatc tctcgcag gatggtcgat 450

<210> 17501
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-C1
 <400> 17501

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 agaccttattc attaatgctg gcactgctgg tggcttcaag gccaaagggg caagcattgg 180
 agatgtattc ctggcatcag atgtttcatt ccatgacagg aggataccaa tacctgtttt 240
 tgacatgtat ggaattggag cacggaaaac ttctgcagtt cctaatatct tgaaggaaact 300
 caatttgaag attggcaaat tgtcgactgg ggattctctg gatatgtctc cccaggatga 360
 gaagggtgata ctgagcaatg atgctacagt aaaagataat ggaggagctg ctgtggcata 420
 tgtcgccgac atgttttcaa c 441

<210> 17502
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-C10
 <400> 17502

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 ttcgaatcaa accactacct gatttgttta ggccccgaa atttgccggg tcgctcgtgt 120
 cgctcctctc cctgcgcagc cccagatcc ggcaccgacc gctcctcgat cccgcaccc 180
 caccgccaca cgctgggacc agcagtgtcg cgcgctgggt atgaggaaga gaacacgaac 240

CGCGGCATGG CGGCTCCGCC CGCGAAGGCC CGGGCCGACT ACCACTACCT TATCAAGCTG 300

ctcctcattg gagacactcc tgttggcaag agttgcctcc tgttgcgggt ctctgatggc 360
tccttcaacta caagctttat taccacaata tggattgact tt 402

<210> 17503
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-C11

<400> 17503

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agccgtcggg ggaagatgtc gtacctgtc ggcggtctgc actcgggggtg ggcgggtggac 120
caggccatcc tcgccgagga ggagcgctc gtcacatcc gcttcggcca tgactgggac 180
gagacctgca tgcagatgga tgaagtgcta gcagcagtag ctgagaccat aaagaacttt 240
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tacgaccctt cgacagtgat gttcttcttc cggaacaagc acatcatgat tgatctcggg 360
actggaaaca acaacaagat caactgggcc ctgaaggaca agcaagagtt catcgacatt 420
gtggagaccg tatacagggg cgcccgaaa ggccgtggtc tgggtgatt 468

<210> 17504
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-C12

<400> 17504

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gaaggagtcc gggtcgccgc cggcgctggc gccggcgccg gcgcagtcga agctgtaccg 120
cggcgtgcgg cagcgccact ggggcaagtg ggtggcggag atccgtctcc cgaagaaccg 180
cacgcggtg tggctcggca ccttcgacac cgccgaggac gcggcgctcg cctacgacaa 240
ggcggccttc cgctcccgcg gcgacacggc gcgcctcaac ttcccggccc tccggcgcg 300
cggcgcgac ctgcgggtc cgc 323

<210> 17505
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-C4

 <400> 17505

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 taggggcagc atgcagctat actttaaaac agctaccgga acacctatca ccgatgaaga 180
 tgagcatata gaccacatct accacaccta tggcactatt catgacaagg agggcattcg 240
 cacaaaccag aaccatgtca tatatgctgg aa 272

<210> 17506
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-035-Q1-K1-B1

 <400> 17506

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 tcgtccctgg cgcccaagat cggcccgtc gggctctccc cgaagaagat cggcgaggac 180
 atcgccaagg agacggccaa ggactggaag ggcttgccgc tcaccgtcaa gtcaccgtc 240
 cagaaccgnc aggccaaggt ctccgtcgtc ccctccgncg ncgcgctcgt catcaaggcg 300
 ctcaaggagc ccgagaggga ccggaagaa ggtcaagaac atcaagcaca gcggcaacat 360
 cggcctcgac gacgtcgtcg agatcgccag gaccatgagg aacaggtcca 410

<210> 17507
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-H2

<400> 17507

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cgttcgccaa ggagaagctt gagacggcgg acgacgagaa caaggtggtg tcgtacagcg 180

tggtggacgg cgagctggcg gacttctaca agaacttcaa gatcacgctg aaggtgactc 240

cggccaaggc ggaaggcgag ggcggcgccg tcgtcagctg ggccatggag ttcgacaagg 300

ccaacgacca ggtgcctgac cgggacgtca tcaaggagac cgtcaccaag acgttccacg 360

acctcgacga ctacctcc 378

<210> 17508

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H5

<400> 17508

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ttctcaataa gtaccttgcc acattcaaag ggtcagatga tgaatcagct acaattggtg 180

atgcgaagga agaggctggt gcggaatca tcgagtttgt taaatcgct aatctctttc 240

agtgtgattt gctcaacatg ccagctgttt cacagcttga gaaggacgaa aagtatcagt 300

tggtgtatga actactaaag atattcctta ctaagaagct tgattcctac ttggagtttc 360

aaagtgcaa ctctgacttg ctgaaagatt attgtctcgt ccatgacaaa tgtgtaacca 420

aaatgcgcct catgtctttg cttgatctga 450

<210> 17509

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H6

<400> 17509

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 agatgatgct gaagctgatg aacaaaaact agagttcctg ctcacagaac tcaaagacaa 180
 ggacataaca gaagtgattg cagctggaag ggaaagggtta tactctgtgc cttcagatgg 240
 tgggtgcaatt gacatgggag ctccagcagc tgtagctggc ggtggcgag cacctgctga 300
 agaggcaaag aaggaagaaa aggttgaaga gaacgaagag tctgatgaag atatgggttt 360
 cagcttggtc gattaaaaca cactggcaa ttacagatt ctctcgcaa tggctcaca 420
 at 422

<210> 17510
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H7

<400> 17510

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 taacaataca attttgcgtc tagctatcac aagtgtgtg cacaaggcaa gaaagtcata 180
 tggagatatc aatgtcatag tgacaggcca ctcgatggga ggagctatgg cttctttttg 240
 cgcgctcgat cttgctatga agcttggagg tggcagtgtg caactcatga cttttgggca 300
 gcctcggtgtt ggcaatgctg cattcgctc atacttcgcc aaatatgtac ccaacacaat 360
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 ccagctgaca 430

<210> 17511
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H9

<400> 17511

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cttaccctat cgagccctga tttccaaaaa tctgcaacat gttcaaaggt ggccatcaaa 180
ctcctatact gagtcctggc gcactggacc atatacgcca taaaataata tcctatccat 240
gatatgtaat tgggtgtatac atgcbgtgcaa tgtaggatgc tcttatag 288

<210> 17512
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A1

<400> 17512

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aaaaaaaaacc tagcttgag attcaggtaa gtaactgttg gaactgtagg gcacaactca 180
ttctggaaat agttagcaag tttggatggc attgtaattg ttgtaatata tgagttgaaa 240
cattctttca aaggctcgtg cttgtgatct ctctcgcatc tgtaatgtta gtgctttgat 300
cattta 306

<210> 17513
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A10

<400> 17513

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cccctccggc gacacgctgc agcgctggat ggaggagatg tcggcgtacg tcaagtccat 180
cgacaagaag catctgctca ccgtcggcac cgaggggttc tacgggccga cgagccccca 240
ggagaagctg gacgtcaatc cgggcacgtg gaaggacaac aactacggtt cggacttcat 300
ccgcaacgcc aagatcccag acatcgactt cgcttccatc cacctctacc ctgacacctg 360
gctgctgcag cagcacgcca cgggtggacga gaagctcaag ttcgtgaagc ggtgggtggc 420
gtcccacatc gaggacggtg acaaggagct gggcaagccg gt 462

<210> 17514
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A11

<400> 17514

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 cgttatgtcg ttactgggct tcgactgaat ttaaggcaaa gtctgtgcga cacagttcca 180
 atcgtggaac cgagtcgtat cacaggatg gaggtgatga tcactttcgt ttggcaaaac 240
 gaatggaagc tagcactggg gcagtgccta gtgatgttca aatatacctt aaggggcaca 300
 gaggatcaga tcctgcaaatt ccagatgtgt tgtgcagcca aaaggcaaca gatcgtgtgc 360
 tgggtgtttg gaaatgtttg gtaggttctg tttatatgga tttttgtatg taagattaca 420
 ttgttctttt gtatgaagct gcatatggc 449

<210> 17515
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A12

<400> 17515

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 ctacattcaa cttctectat ttcccttcaa ctctccctc accatcaccc tctactacct 180
 ttcatttcaa ttccacactc actactaaat ctacttcaa ttccctatca acatatccct 240
 ctatccctac actcttcaca ccaacattt 269

<210> 17516
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A2

<400> 17516
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 ttggtcgaca gccatacgga aacgaaaggt tgatgtacag ggagcagaga ggactaaagt 120
 cggtagaagt gagcttgatc taggacagtg ctctccaatt cgttccattg aacacaagta 180
 gcagtacaaa tagaactcat cctaagatcc ttggaggctt cacttgata tactcagctg 240
 ggtggatagg tgggtgggtgt atggtgtgat tttggcatcc aattggaatg gcaaaggtaa 300
 tagtgttatt gtactaggaa ttctttccct tttttttctt tctcggggcc taaaattctc 360
 atgttgcaaa ttatttttga gttgccacag agatttgcca ggagggctcg aagtcatggt 420
 ggt 423

<210> 17517
 <211> 247
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-035-Q1-K1-A3

<400> 17517
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 ccaattcctt ccatttaaca caagtatcaa taaaaataga actcatccta agatccttgc 180
 atacttcact cgtatatact catctgcatg catacacaat agatatatcc taccatttta 240
 tcatcca 247

<210> 17518
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A4

<400> 17518
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 tccgttttca tttgcagaca cttcacagac aaggaagatt gatctccgaa ggacattatc 180

tagaacaaca tcagtgtttt catctttctgc tgctttgttt gggaaactta aaagagatat 240
gcttttcattt cgtgaaagtg cactccagga taacacaaag ctactgccca tcagtgagaa 300
tgcaaagtga atcagtgcaa atgatgcaaa attattcaag tcacagacta ttcaaaggat 360
ggttagtaca agagatatatt ctcttccctc ttccacaga 399

<210> 17519
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-035-Q1-K1-A5

<400> 17519

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agtgagagca tatgctgctg ccagaggagt aagatcagat caaattgtat tcacagacgt 120
tgccatgaaa aatgagcata tacgacgcag tgccctggca gaccttttcc tggacactcc 180
cctctgcaat gcacacacaa caggcactga catactgtgg gctggctctgc caatgatcac 240
ccttccacta gagaaaatgg caaccagagt agctggttcc ctctgcgtag ctactgngct 300
tgaggagagg atgattgtta gcagcatgaa gaagtatgaa gatagagcag tagaactagc 360
gctgaantcc gtgaagcttc aagcgtgac taacaagctc aaggaagttc gtatgacctg 420
cccngtgttt gatacagctc gatggg 446

<210> 17520
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A6

<400> 17520

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gtgtgtcatt cttggtattg cggcctacct ttacaatgtt ctaaaaaagt gaggtggagt 180
cttcttgcc tggaaaccgt catgtcgtgg tccctttgtc accatggttc taccagttc 240

tttgagcgat ttgtgtgcac caagccattt gttttgtctt atatctgtat tattatgggtg 300
 tccaagttga accttgacta ggcttggtga agagaacgct ggtaacatgt ttgctatata 360
 tctggggagt cgatttcgta gcgaggaatg attacacggc accattctta tcgtcttata 420
 gaaccacggg ctcatgtata ttcattccgt cagggcttt 459

<210> 17521
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A7

<400> 17521

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 gaagagatgg cggcgtcgga cgttgagtag cgttgcttcg ttggcggcct cgcctggggc 120
 accgacgacc actccctcaa caacgccttc agcacctacg gcgaggtcct cgagtcgaag 180
 atcatcctgg atcgggagac gcagaggtcc cgcggcttcg gcttcgtcac cttctccacg 240
 gaggacgcga tgcgcagcgc catcgagggc atgaacggca aggagctcga cggccgcaac 300
 atcacggtta acgaggccca gtcccgcggc ggccgtggag gcggcggtgg cggatacggc 360
 ggcgggcgcc gtgatggagg cggctacggc ggtggcggtg gaggctacgg cgggtggctcgt 420
 ggaggctacg gcggcggtgg gggatacggc ggt 453

<210> 17522
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A8

<400> 17522

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 cgggtgacaa tactacaagg cggaattatc ttggccacat attcgggact atctacttga 120
 ctggcattca acaaaagtgc agcatgccat tcgaatgtca caatggctct atggagtata 180
 tgaattagca caaccatagg ccacgtctta cataatcgaa catacaaggc acagataaca 240
 cctcaggata tgagacaagc gacaaaattg actatctgaa tgatagctaa ctgtacaatc 300

actgtgattt tataaccgaa tgcaaagata ccaaattctt agtaataaag tcctacactg 360
 aggaccatgt acataggggtc atcaactata aagtttgcgc cagcacactc atgtcgaaca 420
 tgaatctgga ttctgcttac catgc 445

<210> 17523
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H12

<400> 17523

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 gtatgttacc ttgtcttgat gttcagttgt tatcgtttga catgtcagtt attattatta 120
 ttgctgttgc tgtatgttcc tggtctgttt gtttcacgtg taggtatggt gttggcaatt 180
 gtagggatat tctagattac aatgctgatg c 211

<210> 17524
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F4

<400> 17524

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 aggattaacc tacagccttg acggcactcc cacacactct ggaaccagtc catcaacatt 120
 gatactcata gcttgttctc ctataatcat tctcctacta aacacatact ttacaatac 180
 aagacctatc atagatattt cataaaaaat actcac 216

<210> 17525
 <211> 474
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F6

<400> 17525

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 tggaagcagg ccaggtggat tgatagcggg agcttgggct gctatgatgt ctctcggact 180
 gaacggctac ttggacagta caagccgtat catggatggt tcaaagaaaa tacaagagg 240
 gattggagag atcccaggtg tgtttgtgat agggaaaccg gatatgaccg ttgtggcggt 300
 cggctcagac gttgtcgaca tatttgaggt gaacgacata atgtcatcaa aaggttggca 360
 tctcaatgct ctgcagagac ctaacagctt gcatatctgt gtgacccttc aacacacgac 420
 tgtgtacgac caattcctga aggatctgca agactctgtc aacactgtga aagc 474

<210> 17526

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F7

<400> 17526

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 gaggacgtgc agatgaacga ctcgagccc cagcctgcgg cctcagctcc cgccgtcggg 120
 gcgccggcgc tctccacact acaccatctg aaggagatcg cgtccgcgat cgaggccggg 180
 tctctgtcca aggaggtccg acggatctac cgcgccttgc gcctcaccgt cgcgctccgt 240
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 gaagcctacg gacgcctcac tgccctggtg cccaaggaag atgatactga gatggatggt 360
 gatgctgcag ctccagcaac tcagatttca atcaaactg gtcctcctga gattgaaata 420
 ta 422

<210> 17527

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F8

<400> 17527

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gctaccaagc acagggcaag ttgctgagca atcatccacc aattaagttc atggtctcaa 180
tattctgggag caagttcaga gacccaatca tctgtgatgt cgcttacaaa gacccgatca 240
aggtgaaatc agtgcacttc attggagaaa aggactggct caaggtacct tccgaggagc 300
tggcttctgc ctttgatgag cctctcatca taaggcatcc tcagggtcac actgtcccta 360
agcttgacga cgtgtctgtg aaacagcttt ctgaatggag ctcacacg 408

<210> 17528
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G1

<400> 17528

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gagccgaaaa gaatcacata aattatgaca ttctcttga agtctggatt aagccgaaag 120
atcaaaatga cgcatacaatt gtcacaaaaa ctaatttcaa gcatctgtat tggacgctga 180
cacagcagct agcacaccac accatcaacg gatgcaacat gaggccgggg gatataatttg 240
cgactggcac actgagtga cctgaaccgg actcctcgg gtgcctgctg gagctgacat 300
ggaacgggca gaaggagata ccggtgggga gtttgaccg caagttccta gaagatggag 360
atgaagtcac cttgacaggg atttgcaagg gtgaaagcta caacatt 407

<210> 17529
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G10

<400> 17529

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gctgtacggg atattcatat cacaactctt gagtgtatac acaaacacaa aaccatgacg 120
ctcgttatac 130

<210> 17530
<211> 165
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G12

<400> 17530

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aagaaagaga gttgaagatg agtgtacctt gacatgctgt tcacttgta tcggaagaca 120

tgtcatctat tattaatact gctgattctg aatcttcctc acctg 165

<210> 17531

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G2

<400> 17531

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ctgggacgaa cgaagcgctc aagctcaaga agaagcgacc gctgcagacg gtgaacatca 120

aggtgaagat ggactgcgaa ggttgcgagc gtcgctgaa gagcgcggtt aattcgatac 180

tcggcgtagc tagcgtgact gtgaacgcta agcagagcaa gtgcacatga accggatacg 240

ttgagcccgg caaggtgctg cagcgcgctc aggccaccga caagaacgcc gacatgtgcc 300

cctacgtgcc ctacacgctc accacc 326

<210> 17532

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G3

<400> 17532

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ggtggatcgt gctcacctgc aacggcgctc accacgctca cggcggcacg cccaccatgg 120

ggggattctc cgacgtcctg gtctcgagcg agcactacgt ggtccgcgtc cccgacggcc 180

tggcgctgga ccgcaccgag ccgctgctct gcgccggcgt caccgtgtac agccccatga 240

tgcgccacgg cctcaacgag cccggcaagc acctcggcgt cgtcgtgcct ggcggcctcg 300

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339

<210> 17533

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G4

<400> 17533

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gtctgaagat agtctatctg actcgtctggg aagaggggta gcttccagag atccccgagg 120

aggcgggtct acttcggctc tcgattccga gaactgctag tttgttcagt cagtgaggcc 180

tttgaagtg aagcagacaa aaggcgtgaa tcttgcggtg taaagtgtag ttggtacatt 240

gtgtgtatgc ctgcgggtaa gccctgcggt acccagtttg tgcctggcg ccagtttacc 300

atttaagcta agtttttggg tgtgccttgt gctggggctc gggctctagt tattgtagca 360

gagcaggcaa tgcattgcaag aaactgatga tgcg 394

<210> 17534

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G5

<400> 17534

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ggaagcggag atgggggctg cggatctaga ccggcagatc gagcagctga agcgggtgcga 120

gccgctcacg gaggcggagg tcaaggcact gtgcctcaag gccatggaga tcctcatcga 180

ggagagtaac gtgcagcgcg tcgacgcccc cgtcaccatt tgtggagaca tacatggaca 240

gttctatgac atgaaagagc tgttcaaagt tggaggtgac tgcccaaaga caaactattt 300

gttccttggg gattttgttg accgaggatt ttattctgtt gaaacttttt tgcttctttt 360

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acagatcaca catgtttatg gattctatg 449

<210> 17535

<211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-G8

 <400> 17535

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 acagtctcaa tatagtctat gtcactcgct cccaagaggt ctaccttcca gagatcatcc 120
 ataagtccgc tctacttaat ctctcgactc cgagaactga taacatactc agtcagtaca 180
 acctttataa ctgaaacata caaaacgcct taatctacct ctaaataatg cagatggtag 240
 attctatcaa tgcactacac ttaaccctat cctaccatt ttgttcctg gcaccagttt 300
 accatttaaa cta 313

<210> 17536
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-034-Q1-K1-G9

 <400> 17536

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 ccgttcgaag gtgcggcagc cggcaggcga gcgatttcat tcgacatgaa tcccagtagc 120
 gactaccttt tcaaacttct gcttattggg gattctgggt ttgggaaatc atgcttgctt 180
 ctcagatttg cagacgattc ttatttggac agctatatca gcacaattgg gggttgattc 240
 aaaattcgca cagtggagca agatgggaag accatanaac ttcagatttg ggatacctgc 300
 tgggcaagag cgcttcanga caatcactag cagctactac cgcggagctc atggaatcat 360
 tatt 364

<210> 17537
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-H1

 <400> 17537

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tagtttgta aatgcctaa tctctttcaa tgtgatttat ctcaacattc cttctttttc 240
acatcttgag aaggactaaa attatcattt gttttattaa cttcttaata tattcctttc 300
taagaatctt tattcctact tattatttta aatttcatac ttctactttc ttaaatttat 360
taatcttatt catttcttat ttttatecta tattt 395

<210> 17538
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H10

<400> 17538

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gtatgttacc ttgtcttgat gttcagttgt tctcgtttga catgtcagtt attattatta 120
ttgctgttgc tgtatgttcc tgttctgttt gtttcacgtg taggtatggg gttggcaatt 180
ggagggatat tctagataac aatgc 205

<210> 17539
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H11

<400> 17539

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tttgtatgct aaactaattt aacggaggtg accttgcaga gtatgctgag gcatcaaaaa 120
atctaaccgt caagaggcct gctgacgtat ctgctgccga aggcgcacgg ctgccccatcg 180
ccgacgtcac tgccctccag gcgctcagga ccatcgactc caagttcgac tgtactgtca 240
aggccatgaa cgttctggtc accgcggcat caagtggcgt cggcctctac gccgtgcatc 300
tcgcgaaacg gactgttctc cacgtcactg ccacctgcgg cgcgcgtaac gt 352

<210> 17540
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F3

<400> 17540

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tctcagattg ctgaagtga aatggacatc tcagcatcag cttctgttgc atcaggggaa 180
aaattctgca aggggtggtgc ctgtgatttc tctgattcca gtaactcctc gaaagatgcc 240
aaggagagat ccacgtccat gaggaagctt ataatcgag tgatcctttg catcatattc 300
atgacggtgg aagtggtcgg gggcatcaaa gcatacagtc ttgccatctt aactgatgcy 360
gctcaccttc tttctgatgt ggcagcattt gccatatccg tattctctct ctgggcttct 420
ggatgggaag caacaccgca tcattcata 449

<210> 17541
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-D3

<400> 17541

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accatggcta cccgtatcca gtttgagaac aactgtacaa attgggtttt ctcccatctg 180
actaatgctt actgtctggg aacgattgga gggcataga acttttacag tgccttt 237

<210> 17542
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-D4

<400> 17542

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ggcaacggag gaggaggagg gcaatgcaga gaaggagcaa gaacatgatg agtctgctat 120
tagcttggac gaggcctacg cgctagccca tcgccatcgc acgaagccgc tggcgtcgcc 180
gccgccgtca gcagcagcct ctgccaccgc tgcgttgccg acggagcaca agaaggtggt 240
ggcggactgg cggaggggtac ccaaagcagg ggaggcgctt gagggggaagg cggagttgaa 300
cgcgcgcgca gacctgttca tccggcagtt ccgcgaggaa ctcaagcttg agaggctcaa 360
ctccgtcctc aaccacaccc acgcccttgg ctccccaacg gcggcgctgt aaccggtgtg 420
ctccattgtt cacatgggca ttttt 445

<210> 17543
<211> 351
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-034-Q1-K1-D7
<400> 17543

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gtttccttct gcacgtctac cccgggagga actgtgtcca ctgagatgtg gcttgacagc 120
cagaaagtgc actaccaaac gaaggccaat gatcggaacc gagctgtcct ctctggatat 180
gtgttgctcc agcacatccc ctcgtcattg taagtaaaag ttttgtttct taaaattggt 240
gcccgtgaa agcattttgc ttggctgtga taaattgagc acgaggtgtt ctgccactgt 300
aatgatagcc atgtatgggt ctgcacataa cacattcgta ctgtattgat a 351

<210> 17544
<211> 344
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-034-Q1-K1-D9
<400> 17544

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aaacaaatgc gggagcgatt tcatgactga tcagctgtag catgccgcag cgtcgcagaa 120
agagatcgtg attgatgact gtttcgtagt ccattcagct gcttttggtg aatatttaag 180

<210> 17547
 <211> 167
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-E12

 <400> 17547

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 cgtcgacaat cgcattgggtta ctagtaagca tgaagacgcc gaacgcggta gctgccttcc 120
 tgttgtcagc gacactgcta gcttgatcca cttcagctgc aatcacc 167

<210> 17548
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-E3

 <400> 17548

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 ggcagcagga gaggttacta cggagtgtgg caggagttcg agaagcagta ccctgacgcc 120
 aatgtcctcc tggtcaccgt gaccgacgag gagtcgaggc gcatcgagca gcagtcggac 180
 gagcagacca aggcggagat catgcaggtg ctgcggaaga tgttccccgg caatggacgt 240
 cccggacgcc accgaatcc ttgtcccgag atgggtgtcc gacaggttct acaagggctc 300
 cttctccaac tggccagttg gcgtctaccg ctacgaatac gaccagctta aggcaccggt 360
 tgggagggta tacttcaccg gtgagcacac catcgagcac tacaatggct a 411

<210> 17549
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-E4

 <400> 17549

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 ccagcatcaa gagcgcgggt gctacggcga ccgatactcg tctgacacag ctgggtggttg 120
 cctttgcgac tatcacacac ctaatccatc tgctgctctc ctggctatac cgcttcacaa 180

cccagcgcgc gctcatcgat atccctctga tattattgcc caagcttaca ccagagcgga 240
 tgcgcacggc atgtccattg atcaactcgt agctgtcgt ctaatgagct actatcctat 300
 tataccgtga cttgcgacat ct 322

<210> 17550
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-E5

<400> 17550

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 ggcaagcgtc tgtattggac ggtgactcag cagctaacac accacactat caatggatgc 120
 aacatgaggc cgggggatat atttgcaact ggcacactca gtggacctga accggactcc 180
 ctcggtatgtc tattggagct aacatggaac gggcagaagg agataccagt gggcaatttg 240
 acccgcaagt ttctagaaga tggagatgag gtcattctga caggatgctg caagggtgaa 300
 ggctacaaca ttgggttttg aacttgcact tggaaggtcc tgccggcact tacctgagcc 360
 aacacgtgtt tacatcaatt ctcgagtcca aacactcaac aatctaacaa gatgctatgt 420
 atctgaacaa c 431

<210> 17551
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-034-Q1-K1-E6

<400> 17551

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 gagtcagtta tcaagtcttg ttgtcttagg taacctcaca gagtttgaga gaggagttct 120
 ctggctttca gaaaatctga catttgatgt tgatgctcgg attaatcttt ttgagtgtaa 180
 cataagactt cttggggggc ttatttctgc tcatattctt gcaaaagact acagcagcca 240
 gtttaagcat gggctgtatc aagatcaatt actacgtctt gctgaaagtt taggcaatcg 300

ttttctaccg gcatttgaga cacctactgg attgccgtat tcatggatta atcttaagta 360
 tggggtgatg gaaaatgaaa caactgaaac aagcacatca nggtgtggct cccttatact 420
 tgaaatgggt gtgttgtcac gnttgacttg tgattctaga 460

<210> 17552

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-034-Q1-K1-E8

<400> 17552

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 gagagggcgc ctatggcatt cacttcccaa tccctaattc tccgggcacc cgcctcgccc 120
 tcttgtgccc gcataacccc gtcattccgt cgcgtcaccc tccgggacca cagcgccgtt 180
 ttcccgctcg tcggggcggc ctccacctcg atggcgctct cggagagcga agataagagg 240
 gaaaccaagc tgtggggcgg gcggttcgag gagggcgta ccgacgccgt ggagcgcttc 300
 acggagtcca tatctacga ctggcagctc taaaatacg acataatggg cagcaaggcc 360
 cagcctcca tgctcgctgg ccagggtttg ataacagcta ctgataggga tatcatctta 420
 gaggggctng atcagataga gaggctgatc 450

<210> 17553

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F1

<400> 17553

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 gcgagatagg catcgaccca gcggcgga ctccggagca gcgcaacaag ttcttggtcc 120
 tccgctgta cgaggcgctc aacgcccggg accacgccgc cgtgcagtcg ctgctggcgc 180
 ccgacctgga gtggtggttc catggcccgc ccaagcacca gcagcacatg atgcgcctcc 240
 tgacaaccac caccaccacc accaccggca gtttccgctt cgtgccccgc tccgtggacg 300
 ccctcgccgc ctgctccggc accgtgatcg ccgagggccca cgagaggggt tgctactggg 360

tgcacgcctg gaccgagggg cccgatgggg tgatca

396

<210> 17554

<211> 215

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-034-Q1-K1-F10

<400> 17554

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gatgacatgg atcctagggg caacttgagt cgatccatgg atgctagtaa aggggtttgga 120

acttccgatg gtgccaaagc acgttcaagc acatccaaat ttttctgctg ccacttctca 180

cctgatggta aactgcatgc tactggaagt ccata 215

<210> 17555

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F11

<400> 17555

gaggagcaca ggaagctcct gtacgggcta aggcattctgg acaaggctca cgtggatgctc 60

atcttcaaag gcttcgtcac caccacgaca tccacccatg tggccagcca cccccagaaa 120

tactttctat tgcagaccca cccccggatg aaaaaacgcc cttctagcct attctacttt 180

tgtatcacag actaca 196

<210> 17556

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F12

<400> 17556

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atgggaggcc atcgaggagc tcgacgagct cgcctggctc catacctcct tcatcaaact 120

cgacgagccc atcaagacca tcc

143

<210> 17557

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F2

<400> 17557

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ggggacatca ctcccatggg tggcttcccc cactatggta tcgtgaaggg tgactacctg 120

atgatcaagg gatgctgcgt ggggtccaaag aagaggggtg tgaccctccg ccagtccttc 180

ctgaagcaga cttcccggtt ggcgctggag gagatcaagc tcaagttcat cgacacatcg 240

tccaaatttg ggcattggtc cttccaaact accgatgaga agcagagggt ctttggttaag 300

ctcaaggcgt aaggtgctgc agtgcacga caagtcccat ttgtcaaaat catcaaactg 360

tgaaactctt gcttggtacc ttgctgtacc aagttttgta gcatgatgat ttgggagcat 420

g 421

<210> 17558

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-D2

<400> 17558

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tgggaagctg tgacctttat ccacaaagtt taaggcacia tccgaatggg agattttag 120

ttgtatgtag tgatggagaa tacataatat acacagcact tagcatggat aaacagatca 180

tttgggtctg cacttgaatt cgtttggtca actgatggag aatatgccat cagagaaagc 240

acctcgcgga taaagatata cagtgaacat atccaggaga agaaaagtat aaagccatcc 300

tttttcgctg aacggatata tgggtggagt ttacttgcta tgtgtacaaa tgactacatc 360

tgcttctatg attgggctga atg 383

<210> 17559

<211> 77
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-B3

 <400> 17559

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 cattcaagct gatccca 77

<210> 17560
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-B4

 <400> 17560

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 ctctatctgt ctgtatctcc tgctcctgat caggattaaa cgaatccatc tgcttactga 120
 atcctctgac atcagacctc ctagactttt tacgacagga cgcactcatc ttcattgacaa 180
 ttgtcatgat ccataccaac tagtcctacg atccacgcat tggagcattc atgcaccagt 240
 tggaaaatat tatectctta ca 262

<210> 17561
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-B5

 <400> 17561

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 ctctcaagg acttgaaggg tgcgctgaca gcgtccaagg ctccctggaa gatcgctcgtg 120
 ggtcaccacc ccatcagcac cgctgcggg catgggaaca aactgagct ggaggagtgtg 180
 cttctccccg tctcaggac acacgggggtt gacatgtact tgaatggcca tgaccactgc 240
 cttcagcgcg tcagcagcag agacagtcgt cttcagctac taaccagcgg cggcgggtcc 300
 aaggcatggg ctggcaagtt caagcccacc ctcgacaaag tggagttcct ctacgacggc 360

catgggttca tgtcgatgcg cctgagcagg acggaagccc gcctcgcggt cttcgacgtc 420
gctggcagcg tctgcact 439

<210> 17562
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-034-Q1-K1-B6

<400> 17562

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ggctctgggc ttcgttctct acaacgagcc tgaacagaca ccagaatcg tgtccctact 120
gtcggaatca tacaatccac atgtccgtta cggatgcagct ctagctgtcg ggatctcctg 180
cgccggaaca ggattaagtg aagccatctc cttactggag cctctgacat cagacgtcgt 240
cgactttgta cggcagggcg cgctcatcgc catggcaatg gtgatgatcc agaccaacga 300
gtcctacgat ccacgcgttg gagcattcat gcgccagttg gaaaagataa tctcgcacaa 360
gcacgaggat gccatgagca agatggggcg catactggct ttaggcacnc tcgacgccag 420
tggcaggaat gtcaccatca agctcaagtc ga 452

<210> 17563
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-B8

<400> 17563

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tgggcggggg cgcgctcccc gcgttcggcg gcctccccgg cggcagcatt cctggcagca 120
gcattccccg gttcagcatg cccggcagcg gcagcagcct tcccgggttc agcttgcccg 180
gcagcggcag catgccctc ttcggcggcg gctccccggg cttcagcggc ttcggcggca 240
tgccccgggt cccacccgcc ggctccgtcc ccgagcacgc caacaagccc tgaactccgt 300
ctgtccgtcc gatccgtcgc tggagcgagg tcgggctagc cagcgtgcgt ggtagtagag 360
tgatgggtact gtaatacgtc gtcgtcttca tgcattgcgt tgcgtgggt ttccttagct 420

.ccatacgag

429

<210> 17564

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-B9

<400> 17564

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tgccaccaag gctgcccgtg agtctgcccc caccactggt ggagtgaaga agcctcaccg 120
ctaccgccct ggaactgttg ccctccgtga gatccgcaag tatcagaaga gactgagct 180
gctgatcagg aagctgccct tccagaggct cgtcagggaa attgcacagg acttcaaaac 240
tgatttgctg ttccagagcc atgcggtgct tgccctccag gaggtgctg aagcatacct 300
tgttggcctg tttgaggaca ccaacctgtg cgccatccat gctaagcgtg tgaccatcat 360
gccaaaggac attcagctgg caag 384

<210> 17565

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-C1

<400> 17565

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gcaggaaatc catggcctcc atggcaaagg tgtttctggt gagaatatct cttctcagct 120
ttcacccctg gcatctgcac tctttgagtt tttgccccct tttatcagga agcagctact 180
tctccatcct gaatctgatg attcagctca actttctcag attgagacag agaagcttct 240
agcccagtta gttgagactg agatgaacag acgtttgaag gagggcactt acaaaggaaa 300
gaagttaaat gcaatctgtc acttctttgg ctaccaagct aggggagcac tgccttccaa 360
gtttgactgc gattatgcct atgtcttggg gcatgtgtgc taccacatct taactgccgg 420
tttgaacggt 430

<210> 17566
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-C10

<400> 17566

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<210> 17567
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-034-Q1-K1-C11

<400> 17567

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 cgcagctcaa ggagctgaag tctgagctct cctcctccg cgtagccaag gtcaccggcg 180
 gcgcacccaa caagctctcc aagatcaaag tgggtgcgcac ctctatcgcg cgcgtgctca 240
 cagtgatctc gcagaagcag aagtcggcgt tgccggaggc gtacaagaag aagaacctgc 300
 tccccctcga cctnncgcct aagaagacct gtgccattcg ncgtcgtctg accaagcacc 360
 agctttctct gaagacggag agggaaaaga agcgtgagaa gtactttccc atg 413

<210> 17568
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-C12

<400> 17568

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 gggatggcca tgctggactc ggaggagcac cacttcgaat cgaaggccga cgctggggcg 120
 tccaagacct acccgcagca ggctggcacc gtccgtaaga acggcttcat cgtcatcaag 180
 aaccgtccct gcaaggttgt ggaggtttct acctccaaga ctggtaagca tggccacgcc 240

aaatgccact ttgtcgccat agacata

267

<210> 17569

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-C4

<400> 17569

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gttttgcact ggcagtctgc ttatttccag ttaccata ccaatgcaag attgtgttac 120

tgtactcatg tgctggagct ctacttttca ttgtctccat tcttttgcta agagctgcca 180

tctttggcat cttatgggtt ctcttggga aacgcgtgtg gttcttccc aatataaatg 240

cagaggagac aacatttaga gaactgggtc gtttttggcc tgaaaaagat gaaggagagc 300

ggccaaagtg gacatcaaga cttttctatg ctcttggtgc tctattggtg atattactgc 360

ttatgcacca tgctccggac gaagcaacta gagccaggta ccaaagaag gtttctaaca 420

taattgat 428

<210> 17570

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-C6

<400> 17570

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tacagcgggtg gcggtggagg ctacggcggg ggtcgtggag gctacggcgg cggtggggga 180

tacggtggtg caaacgcgg cggcggctac ggcaacaacg acgggaactg gaggaactga 240

gcggtggggg ccgctgaggc ctagttatct tgttcgcttc tgctaccgtg ttcaccctag 300

tctagagggg gtttatcttc gtctgtggtc gtctcgtgtc cgtatgtttc gtttcgtggt 360

cgttgttgat gttgccatc tgtggttttg accgtaagct cgctcctctg atgttggtag 420

tgatgtctaa 430

CCAGGAGAGC

<210> 17571
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-C7

 <400> 17571

 ctccgccact gatctgctct gttgctggtg actaggagca gtagcgagag ggattctgga 60
 gggccgagtc gaagaaccac acggcgcata accaatcggt caaggcgcac aagaacggca 120
 tcaagaagcc caagcgccac cgccagacct ccaccaaggg gatggacccg aagtttctga 180
 ggaacttgag gtactcaagg aagggaaca agaagagtgg cgaggctgat tccgaggagt 240
 aagatgatgg tgattgagtt tgtggcgaca aatgcatctc ttgtatcgct aagagtctta 300
 tctgtgaact tagttctcac ttttgtgtga ctgtgatcaa aggagatcca tcaattggta 360
 ccgaagtgta ttttatgtct tgttggttac ctggaaatta attaaaacca tcagttgtat 420
 ccttttgag 429

<210> 17572
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-034-Q1-K1-C8

 <400> 17572

 cggacgcgtg ggtatztatg atgagtgtgc gtctgtttta tatcaggaaa tagactatat 60
 ggaggaggca tttaacgctg aaaaatttgc tgaaaacttc aaaaaattgg attatgtgaa 120
 ggttcctgaa atttactggg cacacactac tcctcaggtt ttaacaatgg aatatgtccc 180
 aggaattaaa attaacagaa taaagcagtt agataagtta ggagtcgata gaaaaagatt 240
 aggtcgttat gctgttgagt cctaccttga gcagatctta tcccatgggt ttttccatgc 300
 tgacccgcat ccaggaaaca ttgcntgtga tgatgtcaat ggaggagagac ttatcttcta 360
 tgacttncgg atgatgggaa gtatcagtca taatatccgg gaaggattgc ttgaagnatc 420
 tatggagttt atgaaaagga tcct 444

<210> 17573
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-034-Q1-K1-C9

<400> 17573

cttactcctg cgtctccatc ttggcccaac cgagcccaaa cctctcccct tttctccggc 60
ctctggtagt ccacacggca gacgccgtcg ccgggggaga ggagaggagg ggaggggatc 120
ggctccaagg gaacaggtga gatggcaatc ctgtacgcgc tgggtggcgcg cggcacgggtg 180
gtgctggcgg agcacagcgc ggcagccacc aacgcgggcg ctatcgcgcg ccaagtcctc 240
gagcgccttc ccgacggcgg cgccgacagc cacgtctact acacgcagga ccgctacgtg 300
ttccacgcca agcgcaccga cggcatcacc gcgctctgca tggccgacga cgccgncgga 360
agaccgattc ccttcgcatt tttggaggat attcat 396

<210> 17574
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-034-Q1-K1-D10

<400> 17574

cggacgcgtg ggccggacga cgggtacaag aagctgtacg gcacgggggtc gctggagggg 60
gcgtccatag agcagtggct gcaggcggag gcgcagagct tcgacgcgcc gagctcggag 120
ctggcgttcc agctggcggt cgcgccgcac ctcaaggacg tgcgccccga cgaggcccg 180
gtcgccgaga acgagaagaa gctgcacagc atgctgggcg tctacgacga catcctctcc 240
aagaacgagt acctcgccgg cgacgacttc aactggccg acctntccca cctggcaaac 300
tcccactaca tcgtcaaact cctcgacagg ggcaggaaag ct 342

<210> 17575
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-D11

<400> 17575

gcgcagagcc tgattcatct ccattcgaaa caccctatca cccacactct cacttcgtcc 60
gcagcctgaa tcctcgtaac gatggctcgc acgaagcata ctgcgcgcaa gtccacgggc 120
ggcaaggccc ctatgaagca gctgtcgacc aaggcggcgc gcaagtcagc ccctgcgacc 180
gtcgtgctaa agaatcctga ccgtttccgt ccgcgcaccg tggcgctgct ctagatccgc 240
aagtaccaca atagcactga gcttctcatc cgcaagctgt cctttcagcg cctgggtccgc 300
gagatcgcgc agga 314

<210> 17576

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-D12

<400> 17576

tcccgaatcg acgcaagcgc acgaatactg tgtgcgtata gcagactaaa gtccaaaggg 60
ccaggatgct cgggcaactc atgtaaagcg cttcaaaaat atgccaatgg cagacatgga 120
gttggctctg cctgagaaga aaaacccgag cctcacacct atggactggg ttcaatttat 180
tgtctctgtt gtcattggac ttgttacact catcacttca ctggacatgc ctaaagctga 240
tttctgagtt gtaattgcaa tactatctgc acttgcataa tattgcgcga agatct 296

<210> 17577

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-B2

<400> 17577

cacacgaatg ccgacctgat caagttagaa ctgactgcac tgttcagata ttggcgccag 60
tgcaatctcg atacatgcc taatccatcc atggagccat tagttgatgc tgttcaaagg 120
catttcacgg cccaccaatt ggatgagttg catgtcattg tcagcttttt gcaagctgca 180
aagaagctga agacaactat gaaagtggcc tgacagtga gcatgaagtt caactaacag 240
attcaagata ggatgcagca tgtttgatga atgttgccgt gctatgta atatatgcat 300

gaagttcttc agattcaagt agtaatggac aactagacta tgtaaacctc atctgatgta 360
tatattcagt atccccgtcta aagatgttt 389

<210> 17578
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H10

<400> 17578

gagaaagtac aaggagggtgg agcttggttcg aagttcaaac cttaagaaag ggtcttgacag 60
agtaggttac cttgtcttga tgttcagttg ctatcgtttg acatgtcagt tattattatc 120
attgctgttg ctgtatgttc ctgttctgtt tgtgtcacgt gtaggtatgg tgttggcaat 180
tggagggata ttctagataa caatgctgag gctttggccg gcaggacacc ggtggacttg 240
aacgacaagt gtaggaacat gcttt 265

<210> 17579
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H11

<400> 17579

aggagtcgtg gctgatgttg gtccaggaat caatgggttc caagccggag atcaagttgt 60
tgcgtatgct caactcattt aacggagggtg ggcttgcgga gtatgctgtg gcatcagaaa 120
atctgaccgt caagaggcct cctgaggtat ctgctgccga aggcgcaggg ctgcccacgc 180
ccgccggcac tgccctccag gcgctcagga ccacggcgc caagttcgac ggtactggca 240
aggccatgaa cgttctggtc accgcggcat caggtggcgt cggcctctac gccgtgcagc 300
tcgcgaaacg ggctgggtctc cacgtcactg ccacctgcgg cgcgcgtaac gtagagctgg 360
tg 362

<210> 17580
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H12

<400> 17580

gagaaagaca aggaggtgga gcttggtcga agaagaaacc ttaagaaagg gtgttgaaga 60
gtatgttacc ttgtcttgat gttcagttgt tatcgtttga catgtcagtt attattatta 120
ttgctgttgc tgtatgttcc tgttctgttt gtttcacgtg taggtatggg gttggcaatt 180
ggagggatat tctagataac aatgctgagg ctttggccgg atgacaccgg tggacttgaa 240
ggacaagttg aggaacatgc ttttcctttg aggtaacctg tgaaaca 287

<210> 17581

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-033-Q1-K1-H2

<400> 17581

agaccaatta actagcttct tctagctcta gctaggctcg tctgctgcaa gaaggtaaca 60
gcgcaggcat ggaggggaag gaggaggacg tccgcctggg cgccaacaag ttctcggagc 120
gccagcccat cggcacggcg gcgcattggca cggacgacaa ggactacaag gagccccgcg 180
cggcgccgct cttcgagccc ggggagctca agtctctggc cttctaccgc gccggcatcg 240
ccgagttcgt cgccaccttc ctcttctctt acatctccat cctcaccgtc atgggcgtct 300
ncaagtccac ctncaagtgc gccaccgctg gcattccagg catcgcttgg tccttcggcg 360
gcatgatct 369

<210> 17582

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H3

<400> 17582

cctgagtgc ctcgttctct ctactccgct ctctctcacg cgaggcagtg catccttaat 60
gcagtgcac tttgagccgc cgccgccgtg aggagctccg cccatccgtc gtcacccgtc 120

aaatcagttg atacgaagac attagaggat ataatcggcc cttcaacttc aatgaagtct 180
 catacacatc cagtgaagcc tcgctttcaa gtcagcaatc ggcctaaatg caatttgcta 240
 aataaaagtt ctattgattc tgagcaaact atccaatctt ctatagcctc caagataaca 300
 actttggtat gtgtacttct gaacagagaa aaaaacttta ctactgaatt gcagtagaaa 360
 aattctcttg tgtcatgtct tgttaattta tgtcctagtg tactgttttc ttgattttta 420
 gaataacgcc acaggctacc aaagttacaa a 451

<210> 17583

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H4

<400> 17583

aaccaagcag accccagcag aagaagcgaa gtcgttttcg gagcaggagg aagagcgagc 60
 agcaaggtgt cgtggcaggc gtacgtcgat gaccacctgc tgtgcgacat cgaaggccag 120
 cacctcagcg ccgcccgcct cgctggccac gactgcagcg tctggtcaca gtccgagaac 180
 ttgatcgagt taaagcctga ggaggttgct gacatgatta aggactttga cgaacctgtt 240
 aactacaggc caacatggtc caaggggaag aggtatccag tacacagga tccttgtctg 300
 gaccacaaca accatgcgaa aggtgagagt ttcgatctgg gcaagtacat ttgacagcac 360
 tttgaaggcc catcgttggt cccataggat cctttaataa agcagttcgc tgaagagctg 420
 cttgcatata ctgatgcctt taacaaagtc ttatactttt tg 462

<210> 17584

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H5

<400> 17584

cacacacaca gacaagtggc ttccaaagcc aagtgtgtgt actagcaacc agctagctcg 60
 ggcggcagca ggcagccatc atgtcagagg agaagcacca ccacttcttc aaccaccaca 120
 agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag gtggtcaccg 180

acaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac aagcacaagc 240
 agcacctcag cgaggccggc gccatcgccg acggcgcctt cgcactctac gagaagcacg 300
 aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag gtcgctgccg 360
 cggcggccgt ctgcgccggc ggctacgtat tccacgagca ccacgagaag aagaaggacc 420
 acaaggacgc cgatgaggcc agcggcgaga ag 452

<210> 17585
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H7

<400> 17585

cgtgcttggg gcaccatata gcctggctac aaggatcatc tgataaattg caggatacat 60
 ggcaagagca acatccaact gaactaggac tagaaaatga gaacaatcac atgtctatatt 120
 taagcattgg tgttatcagc atgaaaagct gtgagcgagc attggtgcat gttgtatgcg 180
 agctatgcta tcgcaaaaac tgaagaatgt cattcgaaaa tgtccataca atggcagacc 240
 ttgtttatga agttgaactc attggatttg atgatggaaa ctacgttaaa tacctaactg 300
 acattacact tgactagagt atcgcaacta cagacaacaa aaatattgag gccaatgcat 360
 atctgaaaga caagaagctt gatgaggcca tgcagcaata tgatatggct atcgcataca 420
 t 421

<210> 17586
 <211> 164
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-033-Q1-K1-H8

<400> 17586

cgcgatcga agctcctcac aaaccgttat cgtcgccatg gcagccgccg ngcctgaaag 60
 cgtcctaaag gaagtgtgc catctcccct gacctccgcc tccgagcccc ttcccttttt 120
 cgatggcacc accaggctgt acgttgcccta tcattgcccg tacg 164

<210> 17587
 <211> 211
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-H9

 <400> 17587

 gccgatccta aggacggagg aaccctcga tagcgcgatc acgcgcgtca tccgaaagga 60
 atcggttaag atggccgagc ctgacgtggc agcagacggc gacgttagga agtcctgtgg 120
 tggacgtggg gctacttcat gagaggcgtg ttcctgtaat tctgtactca cttagttctc 180
 tctgcatgcg tctataattg agttcaatag a 211

<210> 17588
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-A1

 <400> 17588

 aaattatacg agccatccaa aggggatgac tcaactcatca gtgaagagag ctcaggggggt 60
 gagaataaga tgggggatagg ctcttgaacc gaaaggggttc agtttctga gttgggtttt 120
 ttttccccgc gtcttctcga gcatcagtgc ttgggtggag actcagtcgt ctttgcaggg 180
 agttgggttaa tcagtagact gatgggtgcg aataaagtca agtcaaacag cttaaccata 240
 tgattaacac ctttgctttt ctatttctaa atctgagatg attgcaaaca gttttggt 298

<210> 17589
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-A12

 <400> 17589

 acccactcgt cctaacaaaa cctgtcttta acgtaacggt tcttactttc atacacgtgc 60
 tgcattgctg gcgttgtctc gtttagaggg atgatcgctc aagtcctata actagcgaaa 120
 ccctcttttt gagtttctga cacatgctcc taatgctaaa tatccaatta accgagttac 180
 ataccaaadc tactacttaa ttgagttcc 209

<210> 17590
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A2

<400> 17590

aactcaagag aacagtgtac agaattggat ttaagacttg atatggaatc atctggatct 60
gagttatcca aacatgccat attcaaaggt gcacagtgga tttttctcct cgtataacaa 120
tacaattttg catctatcta tcacaagtgc tgtgcacata gcaagaaagt catatggaga 180
tatcaatgac atagtgcacag gccactctat ggtaggagct atggcttctt ttttcacact 240
cgatctttct at 252

<210> 17591
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A3

<400> 17591

ataaagtttc tgaattcctt gagaagcatg attaggacct catctgccga gcccatcaag 60
gggtcgaaga tggatatgag tttttcgcta gccgccaact cgtaacaatg ttttcagccc 120
ctaactactg tggagaattt gataacgctg gtgccatgat gagtgtagat gagacattga 180
tgtgctcctt ccaaatactg aatcctgcga ggaagggtgtt ggggtggttca actaataaca 240
aatctggctt caagtcacgc agaggatggt gacaattgca agcctgatat cagggttggtt 300
ggtagagcagc atgccgtggt cgacgggggg ttgttccatc ataatcatat tacatcggct 360
gcaactgaca ggccccatgc aatttctctt catgttggat caacattctt ggaatgtatt 420
aattact 427

<210> 17592
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A6

<400> 17592
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 tctttttaat aattcactta cttttctgat ttttgttttt actctaattt ttttatttta 120
 ttactttttt cctacacctt atatatcatt tcataacatc ttttttacat caactaacia 180
 tagatattct tttacactct caccatatac atattatccc ccacacttat gagtatatca 240
 aaaagaacgc tgcataaaca tttatccaaa attt 274

<210> 17593
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-B1

<400> 17593
 agcatagata ccgcaaggat agcttttgct ccgatgttga acagctttgg ctcgggctag 60
 agtaccaaga agagtgccgc ggcatgatg gattacacat ctttgagggc agcgacagaa 120
 aacttcagtg agagcaatgt ccttggatta ggtgggtttg ggtctgtgta caaagccaat 180
 tttgatggga ggtttgctgc tgcggtgaat agactggatg gtggggcaca tgattgcaag 240
 aaggaattcg agaatgagct agacttgctt gggaagattc gacatgcaa catcgtgtac 300
 cttgtaggct tctgcattca tgaggagaac cgtttcgatg gttatgaact gatggagagt 360
 gagtcgttgg attcgcaact tcatgggcca ttacatgggt c 401

<210> 17594
 <211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-034-Q1-K1-B10

<400> 17594
 atcgccgggt cgacgtcacg cgttcgcgga cgctttaatg ttaaccatt tgttgtcagg 60
 agtggtcatg atgagcgggg gggggtanca gatacgcgga tgttcgacta tcacaggcag 120
 catggcatcg aaatccgaat tgccaggatt ctcaacacct atgggccaag gatgaacatt 180

gacgatggcc gtcgcgttag caacttcatt gctcatgctg tgcgtgacga accccttact 240
gtccagaagc cagtaacaca gactaggagc attctgctat g 281

<210> 17595
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-034-Q1-K1-B11

<400> 17595

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acggggacgg cgactgttgg atcgacgaca accaagagaa ctacgacaat atgcacgcgc 120
accagggctg cgaggactgc cgcggcctcc tcgacggcat actgtccgac ttcgacgact 180
acgacgggag cccagcacgg ccgaggtccc cgccggcgcc gtaccgcgtc gtcttcggcc 240
acgacgacga cactctgctg gagctggagt gggcggaaga ggccgccatg gacccgttcg 300
ccaccagcga gtccgcggng ggctggtaca tggacggcct ggtcatg 347

<210> 17596
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-B12

<400> 17596

cacgctgata ttcgactatc acacgcagca tggcattgaa atccgaattg ccacgatttt 60
caacacctat gggccaacga tgaacattga caattgccgc gttgctagca acttca 116

<210> 17597
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G8

<400> 17597

ccgacgccga cgacgcgatt cgtctcccca gcagctttgg cgctggtggt cgaccgtgga 60
gttgctgcga ctccgctatc aaggacgcct ccctgccggc gtggcgctgc aacgacgtgg 120

tggacaagtg ctccgccgac tgccaggact gcgaggcgtc gccggccggc gacggcttcg 180
tctgcggtga ctttatctta agcctgaccg agcccccggt ctgcacaccg aggccgtggg 240
actgctgcga cagcgtggcc tgcacaaggg actacatccc caactgcatg tgcttgga 300
aggtggagtc gtgctcgagc aactgcgaac ggtgcgagtt tctgtatcat tcggaccc 358

<210> 17598
<211> 232
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-033-Q1-K1-F10
<400> 17598

gctttatgct gatgcacatt gaaggactcc gattggtggt atacgtatgg gagcttggtg 60
actgcgaacg gaaagtggac acgatcaact taagaaagca gccacgatgc aagcctatca 120
ctactatcct tccacggcct gattgacgtc aagacacgtc tatgatctca taatatctct 180
cactgattca caactccctc aacactctaa ctaccactcg agctaaacct tt 232

<210> 17599
<211> 386
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-033-Q1-K1-F11
<400> 17599

gaggagcaca ggaagttcct ggacgggcta aggcagctgg gcaagggcga cgggaggggc 60
atctccaagg gcttcgtcac caccaggacg gcgacgcatg tggccagcca cgcccagaag 120
tacttcctcc ggcagaccaa ccccgggatg aagaagcgcc gggcgagcct cttcgacgtc 180
ggtatcgcgg actacaagga caaccagggtg ccaggccctc agagcatcgt cactgccaaa 240
ccggcgcccta cgcangagat aatccacacc gaccgcggcg acgtcccat accaagacga 300
tatagaggcc ctcgagagat tttagggcag taacatgcag gttaatcaac tgactgacta 360
ctactatttc aacaaggact cccatg 386

<210> 17600

<211> 229
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-F12

 <400> 17600

 actcacacgg tctacacatc aaccagcaca catttcctt tggcggatct taggagggaa 60
 ggaggacata gacggcgggg tggacgtgca cataaaccgg cgtatcgaag tgtggaacgc 120
 ctgccgagag aacctcgagt tcaacttgcg ctggaccgcg cgcacaatcg ccctcgtaat 180
 tctcttcagc ctaggattga ggacaccatt atacacatca atggggagc 229

<210> 17601
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-F4

 <400> 17601

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 ggcagcggca aggtgatgtc catggaccgc gacgcggtgg ccaaagcctg cgtggagcac 120
 tactaccgga cgttcgacac caaccgcgcg gctctggtag agctgtatca cgagacctac 180
 atgctcacct tcgagggcca gaagttccag ggcccattcg acattgccgg caagctcgga 240
 tctgttcctt tgcaggcctg ctagcaccag atcgtcaccg tctactgaca tccgacgtag 300
 cccgatggag gcatgctcgt attcttctgc ggatgcatac gtaccggcca cgaagtgcac 360
 gctatc 366

<210> 17602
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-F5

 <400> 17602

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 ggagaaatta agcaaagcat aggcacagcc atggctacct cctctgggtc ttgccttatt 120

attagcctgt tgggtggtggt ggtggcgccg gcgctgtcgg cctcaacggc gtcggcacag 180
 ctgtcgtcga cgttctacga cacgtcgtgc cccagcgcga tgtccacat cagcagcggc 240
 gtgaactccg ccgtggcgca gcaggctcgt gtgggggcgt cgctgctccg gctccacttc 300
 cagcactgct tcgtccaagg ctgcgacgcg tccattctgc tgaacgacac gtccggggag 360
 cagacccagc cgccgaacct aactctgaac ccgagggcct tcgacgtcgt caacagcatc 420
 aaggcgc 427

<210> 17603
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-F6

<400> 17603
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 cgtgtcttgc tcgcgcctgc ccccttcctt ccttgctcgt ccagcgccca gatctctcgc 180
 tcgccggcgc tcgggccaga tctgggtgga ggctcggagg cggagcctgg cgcaggtttg 240
 gtttgacca aggggcgagg aggagaggga agaagacccc ggacgccatg gagctggcgg 300
 ttggcggtg gatgcggcgg tcggcgctgc acacctcgt gtcggagtcg gatgactttg 360
 agtcacgcg gctgctcaat aagccgcgga tcaacgtcta gcgccagcgc tccttcgacg 420
 accactcgt cagcgacgtc tcgcac 446

<210> 17604
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-033-Q1-K1-F7

<400> 17604
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 cgccagtcg cccaccagat cacttgtaa actttgttga ggggtgatgg cggtttcttt 120
 cgcaaacctc aacaccgagg cagggcttaa aaagcttgat gagtaccttc tactcgcag 180

ctacatcact ggctaccaag cttccaagga tgacttggct gtctacactt cgttttcgtc 240
 tgctccctcg tccaagtata tcaacgtagc aagggtggtt aatcacattg atgcgctcgt 300
 gaggctgagc ggaattactg cagagggcca aggtgtgaag gttgaatcct cagcagttcc 360
 ttcagcccca actccagatg ttgctgaagc acatgcccca gcttctgang aagaggacga 420
 tgatgatgt 429

<210> 17605
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-F9

<400> 17605

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 catctctcat ggattgaagt gcttattaac taaagatttt gaagaagaag ctgctgtctg 120
 ctggatgtag gcttccttga aatctaacgt cttaatgaac cttcaagatc atcacaacgt 180
 gcacgagtgg cacatgctaa cacgtcgaaa cccttgtcac gaaagaatca tgtctctttc 240
 ttccttccat ttcttggcat ctgatgctct gatgtgttcc ctctgcc 287

<210> 17606
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G1

<400> 17606

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 tgggtagagc gagcgagaag aaggcaatgg cggcggagag cttctgttc acctcggagt 120
 ccgtgaacga ggggcaccca gacaagctgt gcgaccaggt gtcggacgcg gtgctggacg 180
 cctgcctggc gcatgacccc gacagcaagg tggcctgcga gacctgcacc aagacgaaca 240
 tggatgatgg gttcggcgag atcaccacca aggcgagcgt ggactacgag aagatcgtgc 300
 gcgacacctg ccgcgagatc gggttcacct ccgacgacgt ggggctcgac gccgaccgct 360
 gcaaggtgct ggtgaacatc gagcagcagt ccccgacat cgcgcatggc gtgcacgggc 420

acttcacgaa gcggcccgag gagatcggcg

450

<210> 17607

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G10

<400> 17607

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gggcagccac cggagaggca tgctacagac gcggcttctt caacaccggc acaaaaccct 120

aacgctgctg caaccgcagt ggccgttgcc accgatctag agaagaagat gcgccgcgcg 180

gaacggtttg cgatgccaga actgatgtca gacgatgaac agcgcagcag tctgcgccaa 240

agatttgga ctggctcttc aagtgtaaa 269

<210> 17608

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G11

<400> 17608

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acttaagcta atgtggtggt agacaagtgc cggttcttag ctacggtccg agtgaacagg 120

cacgtgcca tggaccgtac caacacgctc aaatggtaa tcggcctggt gatggccgct 180

acctcgatga ctctcttcgc ggggctcacg gtgcggcacg acgaccgccg caccagccag 240

tcgtggacta cgaccaac 258

<210> 17609

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G12

<400> 17609

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gacggataga gattccgtgc cgggtacagt gcagatactg aagacgccta ggttgaacta 120
tagacagtca cttgagacag ccttc 145

<210> 17610
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G3

<400> 17610

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attaatcaag gactgtgtgc tgcactacag tctctctggg gcactggatc actgcgtctc 120
gctgcagcat tcatacaaag atactttcct gaagctaaag tgctgatatc gtctcctacc 180
tggggtaacc acaagaatat cttcaatgat gctagggtag cttggtcaga gtaccggtat 240
tatgacccca agactgttgg gttggatttt gagggaaatga tagctgacat tgaggctgct 300
cctgaacgtt cttttgttct tctacatggg ttgttctcac aacccaactg gaatagaccc 360
aactccttaa catttt 376

<210> 17611
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G4

<400> 17611

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ttacgtgatg cagtgcaggg tctgccatga ggaagaggat caagggcgtg cgaccatgga 120
gtctccttgt ggatgctccg gctctctcaa gtacgtcac aggggatgtg tgcagagatg 180
gtgtgacgag aaggggagca ccctctgtga gatctgcctt cagaatttca agccaggcta 240
cacaatgcct gccaaagaaa ccccggtggg tgaacggct gtcactatca gtgatcgtgc 300
agtgaacacg aggacatgca acatttgga ccttcggagg gctaggttga cggtgcatat 360
tacaccaggt gcttct 376

<210> 17612
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-G5

 <400> 17612

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 atctaaaaga ttggactgcc tacaaacagc tttctcttca actcactctc catgaaccaa 120
 gtgtacccat acaatctatt ccaacaaatt tcagactctt cactttactc ctctctttca 180
 caagaacccg acagcaaaat tacctgtcaa accttatata aaacgaacta cattattctt 240
 tttcactaaa tca 253

<210> 17613
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-G6

 <400> 17613

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 ccactacaga ctgacttacg acgctcaggc atcagggaca tatatcaagc tcttgcaaca 120
 attgaatcac cacacggatg ctctgcctct ctcaaactcg ctcacaggcg atctgtgcaa 180
 atacgccttc accagaaggt gatcaccctc ttgaacaact gtcttcacaa tttcaagccc 240
 agctacacaa tgctttccaa gaaaaccac gtggttcaaa ccgatgttac tatcaaagat 300
 cgtgcattta aactaagac atgcaacatt tagaaccttc ctaaggcttt attgaccgtt 360
 caa 363

<210> 17614
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-F1

 <400> 17614

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gatgtgtctg atttggattt gactcagttt tcaatcacac ggttcaaata tcttttactg 120
 ttctctagcg agcgtgactg gtgctctctt actaaaacac ttctggatat tcttgccaag 180
 agaagcttgg tcagcgagga attatcaaag gaaactatgg agatgctggc tgagattcac 240
 cttctgaaca gagcagtaaa aagaaagagt aggagaatgg tgcatttgct tgtacagttt 300
 gttgtactat gccttgataa ttccaagggt tacccttcc tcccaaactt tcctggccct 360
 ggtggtttaa ctccgttgca tcttgctgca tccattgaga atgcagagga tatagttgac 420
 gccttgacag atgatactca acaggttg 448

<210> 17615

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D4

<400> 17615

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 gagaattttc tggagtgttc gagtcgagca gggttccgat ggcgctgcaa tggatgatcc 120
 tggcgtgcgt ggtggcgggtg gaagctgcgg tggctgcgct ggtcacgctc ccggtgcccc 180
 gcgctgtgcg gggccagatc gtcgcgctca cgtccttggt cctgcagccc ctgtccagtg 240
 tgataccctt cgccggcttc cagatactcg atctctactg gaagaaggag cacagactga 300
 tgtgcacctg ggagatttgc accgacgaag agcgcattcg cttcgagaaa tctatgttta 360
 aagctcagag aaatgtcatt ctttgtgttt cagcatgtct cctttattgg tgcatttatc 420
 gtattgtaaa attgaacaag gatattaagg ctttg 455

<210> 17616

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D5

<400> 17616

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 cgtcgcgtcg actcccaaga tggataagct cagtggttct gcacgtctta tgattgtttc 120

agatcttgac catacaatgg ttgatcatca tgacgaggag aacctgtcct tgcttagggt 180
 tgggtgccctg tgggaatctg tttactgtga ggattctcta ctagtcttct cgactggaag 240
 atcaccaact ctttacaagg aattaaggaa agagaagcct atgctaactc cagacatcac 300
 tatcatgtct gttggcactg agataacata tggggaggca atgggttcctg atgatggctg 360
 ggaagaatat ctgaacaata agtgggacag gaatatgtt gtagcagaaa ctgtgagctt 420
 ttctgagctg aagctt 436

<210> 17617
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-033-Q1-K1-D6
 <400> 17617

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 ggcacagccc cgacgacgac tctccctgct gccttctctc ctgtgaggat ctgctctctt 120
 ccttccctct cctatcctct gctctcgctg ccccaaact ctgcacctcg atctcgctcc 180
 tctacgtct cgcacagtga cgctttgttc aagggtgtggc cgccgccagt cgctgcgctc 240
 gttgaagcag ttgctgtcga ggttgaggtc ctctggggg agacgcgcgg cgcgccgag 300
 gcgcagcgcg gtcagggttcg ggtatgacct gcatagctac tcccagaact tcgacgatgg 360
 cgttgcctag tcagcccggc ggccacggct agcttcttca gtacgtgtag ctagttagga 420
 gtctaggata ttcgtgtaac tagcta 446

<210> 17618
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-033-Q1-K1-D7
 <400> 17618

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 ggatcatgtc ggaggagaag caccaccact tcttcaacca ccacaagaag gacgaggagc 120
 agccccccgg cgagtacggg tactccgaga ccgaggtggt caccgccacc ggcgagggcg 180

agtacgagag gtacaagaag gaggagaagg agcacaagca caagcagcac ctcggcgagg 240
 ccggcgccat cgccgcccgc gccttcgcac tctacgagaa gcacgaggcg aagaaggacc 300
 ccgagcacgc gcacaggcac aagatcacgg aggaggtcgc tgccgcggca gccgtcggcg 360
 ccggcggtta cgtattccac gagcaccacg agaagaagaa ggaccacaag gacgccgagg 420
 aggccagcgg cgagaag 437

<210> 17619
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E1

<400> 17619

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 cacttataca accaccacaa gaatgactag gaaccacatg cactccaata ctcttactac 180
 gatacctaata tatctacctc cacagaccaa tccatgtcct actgttatac acacgaatac 240
 atggagcact atcacaagca acacactcgg ctatgccgac tccatctgca accgcacctt 300
 tcaactctac tagaaacaca atgcgacata taactccaaa cacactcaca ctcaacaagat 360

<210> 17620
 <211> 344
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-033-Q1-K1-E10

<400> 17620

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 gcggcgaggg ccaacatccc cactaacaac tccgcctca tcgcaatcat cgccgacgag 180
 gacaccgtca ctggcttctt gatggccggc gttggcaatg ttgatctgcg caagaaaacc 240
 aactacctcc tcgtcgacaa caagacgaca gttaaacaaa tcgaggatgc gttcaaagaa 300

tttactacga gggaggatat tgctattgtg ctcatcaatc agta

344

<210> 17621
<211> 263
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-033-Q1-K1-E11

<400> 17621

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gttcggtgcg tnngtgctgc gaagcgcatt cgtgggtgtga ctgcgctgcc atccatcatg 120
ccctgggctc gtctctttcc tcgatcatta nngccaagga gctnnngctc aatgggcatg 180
aagggtgagt cgtcgtcccc cttgcgaagg agaatctgca nntgtcgggc cgcccctcgt 240
cccgtcagaa aggattgaag tac 263

<210> 17622
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E12

<400> 17622

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tgagtccctc tccggacctt ggtagctgct tgcttgtggt gagtgagagt gtgagactga 120
gggagaagag gtgggtgggcg tgggtgctacg tcgagagagg cgtgttcctg taatactgta 180
ctcgcttcgt tttctctgca tgcgtctata attgtgttca ataataagtg agagcggcgt 240
gatatgtggc tca 253

<210> 17623
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E2

<400> 17623

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cacgggggca tctcacggcg ctggggcggcg ggcggtgggct cgcttggtg tctcttccta 120
 ttcggcgagg tcggcgctcc ccaggtccg cgggcgtcgg tcgttcgccg cctccgcagg 180
 gggcgccgtg atggggaacc caggcccccg cgccgttgac gccgacgtcg ggatggacgc 240
 cgtccagcgg cggctcatgt ttgaggacga gtgcatttta gtggatgaac aagacaatgt 300
 catcgccac gagtccaagt ataactgcca tctcatggag aagatagaag ctggaaatgt 360
 cctgcacaga gctttcagtg ttttcctttt caactccaaa tatgaattgc tactacagca 420
 aaggctctgca acaaaagtga catttcact tgtctgga 458

<210> 17624

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E3

<400> 17624

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 cttctgagct cacattatta gtcagaggct tgggatccgt actcgggcaa cacaatctcg 120
 aaaaactatt cgatgcacat aattcaggac cacattgact tcgctaccct tcttaaatac 180
 atcaactagc tcaatcatca catcaatctt gaccgtgcta tgcacgatgc ccagaccatt 240
 cgcactattg ctcatgaaaa caacactttc ttcattccaa ctggcaccct aactttaatg 300
 cccctcacta ccgatgggta cattta 326

<210> 17625

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E4

<400> 17625

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 agtcagttgg ctgtgaagtt gacaatgaaa agatggaact cctgctgtcc caactgagcg 180
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gtggcggcgg tgtcgctggt ggggcagctg cacctgctgc tggcggagct gcttctgcag 300
 ctgaggcaaa gaaagaagag aaggtggaag agaaggaaga aagcgatgat gatatgggct 360
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 ggaaaaccag agtcatgttt agattttaag c 451

<210> 17626
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E5

<400> 17626

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 agatggactt cgataccctc cttaagttca tcaatgagct cagtggtcag atcaatcttg 180
 accgggctat ccaggacgcg gaggcattgt gtactattgc aggagaaaat ggggcttcct 240
 gcattccacc tggaacccca ccttcaatgc ccgtcgagac cgatggtggc atgtacgtgc 300
 aagaagacga ggtcttgtga gatatcggtc accctagaaa ataattgcat agaagcatcg 360
 caagttttta tccagtagtg ctttcgtcga cgtcataaat gtgatccgtt gtaagtttgg 420
 aagaa 425

<210> 17627
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E6

<400> 17627

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 gcatcgacga acttaaacaa aaatgcatgt tgcacgacta caggtagcga taaatgccat 120
 agcacaata ctgatcgccg cataagacag actacagggc caggataagg ctgattaacc 180
 aagacaaaaa caagtacaat acacccaaat acagatttga tgtgcgattt accaacaatgg 240
 acatcacagc acaaatcatc tctgctagta tagcaggtga tatggttctt gcttctgctt 300

actcgcatga gttgccacga tatggtcttg aagttggtct gaccaactat gcagctgact 360
 actgcactgg ctttctagtg gctcgccgtg tgctcaagac ccgtggttta aataaggaa 419

<210> 17628
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E7

<400> 17628

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 ttctcaccac cggcgcgggt accccctttc gacaacacca tgagggagt catctcgatc 120
 cacatcggcc aggcgggtat ccaggctgga aacgcgtgct gggagctgta ctgcctcgag 180
 catggcattc aggctgatgg tcagatgcc ggtgacaaga ccattggggg aggtgatgat 240
 gctttcaaca ctttcttcag tgagactggc gctgggaagc acgtccccc tgctgatttt 300
 gttgaccttg agcccactgt catcgatgag gtgaggactg gcacctatcg ccagctcttc 360
 catctgagc agctcatcag tggcaaggag gatgcagcca acaacttcgc tcgtggtcac 420
 tacaccattg gcaaggagat tgttgacctg tg 452

<210> 17629
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E8

<400> 17629

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 ggacgcggag gaagatgggg ctgcggttcg ggaagctctt cagccggctc ttcgccaaga 120
 aggagatgcg gatcctcatg gtcggcctcg acgccgccg taaaaccacc atcctctaca 180
 agtcaagct cggcgagatc gtcaccacca tccccacat cggtttcaat gttgaaactg 240
 ttgagtacaa gaacattagc ttcactgtct gggatgtcgg gggtcaggac aagatcagac 300
 ctctttggag gcattacttc cagaacaccc agggctctat tttgttgtg gacagcaatg 360
 accgtgaccg tgttgttgaa gccagagatg agctccacag gatgctgaac gaggatgagc 420

tacgtgatgc tgtgctgctt ggttttgccca

450

<210> 17630

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-033-Q1-K1-E9

<400> 17630

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aaatcgaggc gcgagctagc tgctatggag aaagagctgg caactgttcg cttggagaaa 180

gagcangata acagggcaag actttttggt agttcaagcg gt 222

<210> 17631

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-033-Q1-K1-D3

<400> 17631

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atcggccatg aacagcctgt tctcgagctc atggaagcgc gacggcgggg acatcgagtc 120

cggcgggcgtg gagatgtctg cgccggcggg cgccgcggcg ggcgcgagcc tggacagggt 180

cttcgaggac gtggagtcca tcaaggacga gctccgcgac ctggagcgca tccagcggtc 240

gtccacgac gccaacgagg ggggaaagtc gatgcacgac gcggcgggcg tgcgcggcct 300

acgcgcgcgg atggacgcgg acgtggccgc ggcgatcaag aaggccaagg tggatgaagct 360

tcgcctcgag tcgctggacc gcgccaacgc cgncaaccgg tccgtgcccc ggt 413

<210> 17632

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-B5

<400> 17632

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acgtatacac agacacttcc gttgatcgat tgagtttgaa cccaccagga tcaggcttag 120

gattacctca tgtctgcgtc gccggagttt tacaggccca ttgaagcatt ggacttttag 180

ctgtactgtg caactcatcc ggtactgtac cctggctaca tctactgttg cataacgcct 240

acggacagct tcatctgcta 260

<210> 17633

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-B8

<400> 17633

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tgagtcaacg ggatcagaga tgagcgagga aatcgatgtc cagcttagtc cagaggagaa 120

agaaaagtta gatgagatca tcaaggaagc tgagagcgac ttggagtctg aggaagtcct 180

ggatcaatcc cttgccattg ttgccgagaa tgaaggctctg gacaaggacg cagctgcaaa 240

actcacaatt tacactgtag gtggtgtttt gaagaatctg acagagggcc ctttgagtgt 300

tatggataag cacatatatg caggacacac tgtcaaacca tttcccagcc tgattggagc 360

tggaaaagtct ggttgtttcg tcatctgaaa tatatttgc aaagggtgtt aggcttgagt 420

ggtgtacacc ggcaacaaca aaaatt 446

<210> 17634

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C1

<400> 17634

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ggcaaagcaa cagactgact tcaatgcatg ggtttcagga atgtgctgca ttagaggagt 120

tatacctcat ccataatgga atccaaaaga tggaaggcct ctctactttg cataacctcc 180

gcatttttggga tgttttcagct aacaagctaa cgactataga aaatatcgaa accttaacca 240
ggctggagga cctgtgggtg aatgacaacc aaataccatc tctagagggt atagagacag 300
ctttggctgg ttgcggggag aagttgacga caatctatct cgaacgaaat ccctgtgcaa 360
aaacttcaga ttactcgtcg acgttgagga aaatatttcc aaatctcgaa caaattgatt 420
cagatatcat agcatgataa ctage 445

<210> 17635
<211> 194
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-033-Q1-K1-C10
<400> 17635

atttcgggat ggacggcacg catcctatgc tcccttgtat tctcaagccc acctaacacc 60
cttagaaaag aagagactta actgcgcgag tgcacgttac gagtggagaa cgccacctcc 120
gccatcgcta agccgtcgct gtccaagaag ccctctccgt cgttccgcct tcggaacggc 180
agcctcaacg cact 194

<210> 17636
<211> 167
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-033-Q1-K1-C12
<400> 17636

atgcggaagc tgctagggct actgtgccac tacgaagatg cacgtgaaca taggggatta 60
tagatctgaa ctcatataca tctacatatc tataaggcat actacgtacg cagaatgagg 120
ataggtccac agtggatcat atacctgaac cgacatgctt ggacgaa 167

<210> 17637
<211> 455
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-033-Q1-K1-C2
<400> 17637

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cggcacgcgg accgtgtgcg gccggccgga gtacgttcgc gcctgctgcg aggccagcct 120
gcgccgcctc ggcacgcact gcacgcact ctactaccag caccgcattg acaccacaac 180
tcccatcgag gagacgattg gcgagctcaa gaagctgggtg gaggagggta aggtcaagta 240
catcggattg tcagaggcga gcccggacac catcaggcgt gcacatgctg tgcacccaat 300
caccgcggtg caaatggagt ggtctctctg gtctcgcgac attgagcccg aaattgtgcc 360
gctctgcaga gaattgggca ttggaattgt accatacagt cctcttggcc gtggattttt 420
tggtggaaga ggagtgaaag aacaagtgtc tgctg 455

<210> 17638
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-033-Q1-K1-C3
<400> 17638

gtctcccaat ttttggcatt ggtggtggac atagcacata tgacaaagct tcggtccact 60
ggtatgtgca atctcatatc cagattaacg agtaccgtga tcgtataatt ttgcctaggc 120
tgacacaaca gtttgggcgg cctgttacca gctgtataaa agtgctggat atgactgggt 180
tgaagctatc agcactaagc caaataaaga tggtgacttc catatcgaca gttgatgatc 240
taaattaccc tgaaaagaca gagacctatt atgtagtcaa cgttccatac atattttctg 300
cttgttgga ggttgtgaag cccttattgc aggagaggac aaaaaagaag gtcaaagttt 360
tgactggctg cgggagagat gaacttctga agatcatgga ctactcatca ctccccatt 420
tctgccgccg ggagggctct ggatcatcga agca 454

<210> 17639
<211> 471
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-033-Q1-K1-C4
<400> 17639

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ctttttggcc caatgaagga tggggacatg aagtgtataa agattgaaga catggaggct 120
 ccagtattca aggccttgct ccatttcacg tattgggatg agttgccgga tattgaagag 180
 cttactggtg taaatacaac ttgggtatcc accttgatgg ctcaacattt actagctgct 240
 gcagaccggt atgcattgga gagatcgaag ttgctctgtg aacttaagct gagcgaagat 300
 gttgcaatat atacagtggc aaatactttg gactgggctg aacagcacca ctgttatcag 360
 ctcaaaaactg tttgcttgaa atttgtagct ctggctgaaa agttgaaagc tgtcatgcaa 420
 accgatgggt ctgattatctt gcaacaaagc tgcccatccc ttctgaccga g 471

<210> 17640
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C6

<400> 17640

ggaaccccaa gtgaccgccc aaccggaagc caggtctctg ttgaaaactg tagcttatga 60
 tgtatgttgg ggatgaggaa ggccttgctt gtttacgtcg gattgcaacc ggaatcattc 120
 cagctaataa aagtttatat aaattagaga agtaatccgg ctaggaatcg ttccaaccca 180
 ccaatccgat agaaacgaac aaggcctaac tggttatctt gaactgacgt tcatgtggca 240
 tcgcaatggc acatgaacat acggcggtcc atgagtttgt taaccggaat atgaacctac 300
 cacctgcggt atttgatccc tgaatgttga gtttgcaatt ctgctt 346

<210> 17641
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C7

<400> 17641

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 agatgaaccg ggtccgcaac ggcgagctgt accgctacat ctgcgacacc aagggcgctt 120
 tcgtgcagcc tgctttctac gaggccttcg ggctgacggt ggttgaggcc atgacctgcg 180
 gcctgcccac gtttgccaca gcctacggcg gtccggccga gatcatcgtg cacggcgctg 240

ctggctacca catcgaccct taccagggcg acaaggcgtc ggccctgctc gtggacttct 300
 tcgacaagtg ccaggcggac ccgagccact ggagcaagat ctcccagggc gggctccagc 360
 gtatcgagga gaagtacacc tggaagctct actcggagag gctgatgacc ctcaccggcg 420
 tgtacggggtt ctgggagtac gtg 443

<210> 17642
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C8

<400> 17642

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 tggcatgctt cagcaccttc cagagctgcc ccattgccag aagagcaaag atcaacacga 120
 ggtccagggg ctgcagcagt agcgtggcga aggggtcatc accaccagcc ttccagttcc 180
 agtgcagggc gtcgactttc gcggcggaca ccagcctccg gctcgagctg gacgagaacc 240
 ccgaggcgat catctcgggg gcgtggcccg ggaactgctc cctcctcagc tacgacgacc 300
 tccgcgccta cctcgagtcg caggagacgg cggcccaggc agacggtcag cagcgcggcg 360
 tggcgctcct gagcgagacc atgtccacac ccgtgctggt ggccacagca gaccagaccc 420
 tggaggacgt cgagtgccac ttcgaggcc 449

<210> 17643
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C9

<400> 17643

tctgctcct ccggtgcat ctctgcccac ccgagcccaa acctcttacc acttctcagg 60
 gctctggtaa tccacacggc acacgccatc aacgcaggca aggacaggtt cgaactgcct 120
 gatgatccgc acacatgata cgcattacgc gtctgctgca agagcctcac gaacctctag 180
 aaattctgca gcaatctggt gaagggcccc aagggtacgc gtactcaacg tcaaaggcct 240
 ccgtgccgta ttcccttacc aatgtgcctt cacatcacca ccaggaaatc ttctgtggc 300

caagggtacca acacctggga tcgctttgaa atgaggattc aca

343

<210> 17644

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D1

<400> 17644

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tcgccccatat ggatgggttg catatactcg caggatggat attcttactg gatatgcacg 120

tctcattatt gcatactat cttgaacata cattgggtga tcatcatgac taggacaatc 180

tgttcttgct tacgtacgtt tccctgagcc tatctcttta ctgccaagat tatctactac 240

tgttcttgac tgtaacatct ccaactttat aaaagcaatt aagcaaagag aatcctattc 300

ta 302

<210> 17645

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D10

<400> 17645

ctgacccttt agccgtacta ccggtathtt caatctgtac ggcactgatt catctcaagg 60

atgcattcat aaagcagggg ctgcaagcgc aagcccacaa cttcaacgcc cacacctcgg 120

agctcacgat ccagctggcg ttcgctccca acctcaagga catccgctcc atacgaggtc 180

cacatccgcc acaacgagaa taaacagcac agcatgctta gcatttacga ccacatcctc 240

tcca 244

<210> 17646

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D11

<400> 17646

agccagctca ggagccgagc ctggtcaggg tagccaagcc catcccggtc gtctcccgcac 60
gtcttctccc tccggaccgc ggctccggcg atggccggcg tcggctccgc gctgcgtcgg 120
ctctacctct ccgtctacaa ctgggtcgtc ttcttcggat gggcgcaggt gctgtactac 180
gcggtcctga cgctgcgttt gagcgggcac aaggccgtct atgccgccgt cgagaggccg 240
ctgcagttcg cgcaaacagc cgccatcatg gaaatcgttc atgggctcgt aaggtt 296

<210> 17647

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D12

<400> 17647

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ctcagctgaa ggctcggtc acagatctgg gactgcaaga ggacgcacac agcttcaacc 120
accaagctca aagctgacct tacacctatc gaccgcgccg aatacaaaga acatgagcaa 180
gtcctagttc tgagacgct tcaatctatt gtaaataac acaacgcac cccttgctta 240
tgtccctact g 251

<210> 17648

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-B3

<400> 17648

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ctgaagcctt attacatgga tacatgtggc ataattccc cctcgccaga ggagtaccca 120
atcttgggac tcaatcttct gaggtgtgtg gtcagaatag aattgccgaa ttccacactg 180
agctggagct ttacctgtc aaggcactcg agcatccttg catcaagcat gctgtagagc 240
ttgagcaatc cttcatggag ggtgcctaca accgagtgtt aagcgctcgg caggctgtgc 300
cacatgagac ctacgtttac ttcacgcacc ttctcgccaa aacagttaga gatgagatcg 360
ctgggtgcag cgaaaagggg tatgattctc tatctgtgag tgatgcaaag caaatgctta 420

tgttcagttc tgaccaagat ct

442

<210> 17649

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H7

<400> 17649

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gcggcgcccc gactgtgagg cagcagacgt acaggatcta ctgcaaggct ggagaggacc 120

agtacagcct cgccctccgc gactgcaagg tctgcctagt gcgcacggac cgtgatgacg 180

acgcgcagca ctggatcaag gacatgaagt acagcaccag ggtgaaggat gaggaaggct 240

accctgccat cgtcctcgtc aacaaagcca ctggagaggc tctcaagcat tcccttggcc 300

agttacaccc tgttcttctg acccgtcata atccatactt cctggacgag tctgtcctgt 360

gga 363

<210> 17650

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H8

<400> 17650

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gggttgtgga ccatgcggac gtggtaatc caagggttct acgcctaagg aaccgtcaaa 120

agttgaaagg aagatactta gcataaaaat ttccaaccat caattttaca agcttttacc 180

tgtgagactt gaccaggaac agctagatga gttggaactg gaagctaaaa tacaaggaac 240

aaaaatgtct aatgtctgcy tccaggtggc tgaaactggt cagagtgagt cactctactg 300

ttataactgt aagctgtcga tgagccgatt attgatgtgc tgtccgacat gcccggttaa 360

gctgtgccta agttgctgcy agaagattcg tgaaagaaac a 401

<210> 17651

<211> 377

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-H9

 <400> 17651

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 gaagacagca ctaccagga ggccgatggt ccgcatgcgg gggatgatact gattccgata 120
 tccgtacctc ttatcagcac tcatgatgct gcgctccaac cccatctgac tcctcatcct 180
 acgatgcata tcatccagct ctactatct ctgctattaa cctaacgagc aggagccgac 240
 gataccacaa gcccttagtc gaccaatata acaacgcgcg caacgctcca tccttgatac 300
 aggacgacac tgacatcgta acgaggatca tcggcgcacc ttcttgccat aacgtcatga 360
 acctgcagat ccgcgtc 377

<210> 17652
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-A1

 <400> 17652

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 gatggcgccg ggctcgctgcc agcacgccgg cctaaccagc cgacggagga attcaggaat 120
 gtggtgtttg gggggcagct cacggagggg gccgacggcc tcaacaagac gaagaggaag 180
 acgggctcct cgcccaaggg gaaggagaca acagggaccg ggatatccaa ggccgagagc 240
 gccgtcgctc ccgtcgcaac tgccttcctg gatcgtcagg ctagccagat caccttttcc 300
 caggacggg 309

<210> 17653
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-A10

 <400> 17653

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ctgctctcta ctctattcgg cgactgatga cgaaccagag cgagcctaag ctattatcac 120
 tggaaggggtg gaggtccacg aagaccagcg cggcgggtcca gaacacctct agtaagggtgc 180
 agagttagtg tgggcgtaat gtatctttct aagttattgt aagccggtct cttgtcttca 240
 caactgacga tctgtgtgtg gtacgctacg cagcgaagtc gcggttgtgc gtgtacgtct 300
 gaactctgga gcattgggtt gttgtacca 329

<210> 17654
 <211> 120
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A11

<400> 17654

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 tgggttaaaac aaaagttggc gactaatcac catatacagc gagcctaata ccattatcac 120

<210> 17655
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A12

<400> 17655

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 gggactagcc cagacttttc atcgaaggct gtggatttgg cagcagggga actcctggag 120
 attgcgacac ctggaaaagt tacacaagaa caacttgatc gtgctaaaga ggcaacaaaa 180
 tctgcagttc tgatgaactt ggaatcaagg tctatagcat ctgaagatat tggaagacag 240
 gttcttactt atggggaaag gaagcccatc gagtatttcc tgaaaacagt tgaagagatc 300
 actttgaatg acattttgtc aaccgcaaaa gagatgatgt ctacaccact cacaatggca 360
 tcgtgggggc gccgttattc atgttcctag ctacgagtct g 401

<210> 17656
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A2

<400> 17656

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aactgatatg gcacctgggt atgatcacat cacttaaacc atcgggtgctg ccaacattac 120
agctcttggc actgaacttt actgctatgt aacaccaaag gaccaccttg gttagcccaa 180
tcgtgatgat gtcaagactg gtgtaatatg ctacaaaatt tctactcatg ctgactatta 240
tgcaaacgtg tatccatatg cacatgctct acatgatgct ctttgcattg caagggatga 300
gtgaagaatg ctgcaccaac ttgcttcac tatggatcca tgaactgcta tagactttca 360
tgatgaagca ttgccctctc atgggtgcaa agttgcacat ttctgctcaa tgtgtggacc 420
caagttctgt tcaatgaaaa ttactgagga 450

<210> 17657

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A3

<400> 17657

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caggttcagt cattcatcaa cgtatagggc aatataatcc cgaacctatg gttcatacat 120
tcgaccagca accctcatag catttaccac taçaattcct atttctttaa cgaccaaaga 180
gaactcttgg actacgaatc aaca 204

<210> 17658

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A4

<400> 17658

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cgtatggctg atgctttggt tatagcccat gccggtggt ctgctctctg ggaaagcaca 120
agaaaccatt atctcaagaa cagtatctcg ccctacttaa aggttgtctc tgctatgggtg 180

ggcaatgatt taatgagttt tgtgagtacc tggccactaa gttcatggaa ggaaactctt 240
gctctgcttt gcacatttgc acagaaagag gagtggcata ttttgtgtga cacacttgcg 300
tctaagcttc tgaatgtcgg tgatacacta gctgcgaccc tctgttatat ttgtgctgga 360
aatattgaca aagcttgtga aatatgggcc cgcaccttga aatctgaaga tgggtgggaag 420
acttatgttg atcttctcca ggatttgatg gaa 453

<210> 17659

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-033-Q1-K1-A5

<400> 17659

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tgagagagagc ggccccctg aggagctccc acacctcgac ggctggcctg ctgcgctggc 120
ctaaccgccga tggcgccggg tcgctgccag cagccggcc taacaagcca ccgaaggatt 180
caagaatgtt gtgtttgggg ggcagcttac cgaaggggcc gaccggctta acaagaccaa 240
gaggaagacc ggcttcttgc ccaaggggaa ggagacaaca cggaccggga tatecaaagc 300
cgaaagcgcc gtcgncgtcg tcgcaactgc ctncctgat cgtcaggcta gccagatca 359

<210> 17660

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A6

<400> 17660

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ggttcggtcg ctacttctc ggcaagcaca ggggccggga ggagatgcgg accggcgctcg 120
gcgcgcagat ctacggcacg ccgctgccgc cgccggcggt cgctggagcc tctcgcgcgc 180
cgctgagcc gttccacagc aagaaacaat ggtccgaggc tgtgtgacta agatttagac 240
gtctctccat ccatccattc tactactact acatatatgt cttggtggtg atgttggatt 300

<211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-B1

 <400> 17663

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 gaagggtagc actgacagct ttctacgtc cgtctaagat catcgtcgat caccactcca 120
 tcactcaccg acatctacca tgcgaaacatc atttacctgg aagagctact tctcccgatc 180
 ctcatgacac acaacagttg acatgtactt gaatggccat aaccactcgc cttcacctcg 240
 tcagcagcag acacagtact cttcagctac caaccagcga cggcaattcc aatgcatcag 300
 ctcgcaagtt caaaccacc actcacaaaa tc 332

<210> 17664
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-B11

 <400> 17664

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 aaccaagaga actactacaa tatgcacgcg caccatggct gcgaggactg ccgcggcctt 120
 ctgcacggca tactgtccga cttcgacgac tactactgga gcccgacacg gccgatgtcc 180
 ccgcctgctc cgtaccgctg cgtc 204

<210> 17665
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-B12

 <400> 17665

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 ctgcacagcg ccgctcaccg tcaccggacc agggtagcga tcgatggctg aggtacacat 120
 cgagccgccc ttgatggtgg acgacgttcg gcacgcgccg gagggccgtg agaacgacct 180

cgaggccatc gagctcgcg gct

203

<210> 17666

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-B2

<400> 17666

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ggcgccggtg ccgcgcgcgc ggggcctgct acctttctcc cgcgctccc ctcgccacgg 120

tctccgtctc ctatgtccc tectctcgga cggagagccc atcccgtcgc cgctccgctc 180

tgtctctccg ccaagegcgc cgctcgccc gccatgggct ccagctcctc ctccaactca 240

ggaaatcaaa cgctactgat gctgccgttc agctttacat tcgatgaaga ttcttctagt 300

tccagaaggc tatatagatg gaaaagggtt ttgctcaaag taagtgggga agctcttgcc 360

gggaatcaca cagaaaacat cgacccaaag attacaatgg ctattgcaag agaagttgct 420

tctgtcacca aactaggtgt 440

<210> 17667

<211> 254

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-032-Q1-K1-H5

<400> 17667

acantatggt ccgttttctt agaggtaatg ggtaatggaa gactcttcac cttgatacgg 60

attgctactc atgaaggggt gaantgttta cccacataac ccatatactc aacttagtct 120

actatgcac aaacaatgag cttgtgagga cacaaccct tattaagaag tccatgtgac 180

aagttgatgc tgaccattc aagcagtggg acctcactca ctatggagtt gacattaata 240

ggaataataa aacc 254

<210> 17668

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-F8

<400> 17668

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taacccgccg ggccctgaacc cggcctgcgg ggagggcaag gtcgtcgaca gcttcgggcgg 120
gttcaaggcc tacgtcgccg gccccgagga ctccaaggcc gccgtcgtcc tcgtcgccga 180
cgtcttcgga ttctaagcgc cgattatgag gaagatagcc gacaaggttg cttcgtcagg 240
gtactttgtt gtgataccag atttgtttca tggggatcct tatgcacctg agaatgttga 300
gaagcccttt actgtgtgga taaagtcaca tactccggag aaagggtttg aagagacaaa 360
acaagttatt ggggctctaa aggagaaagg agtgtctgct ggtggagctt caagggattg 420
ctgggggt 427

<210> 17669

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-F9

<400> 17669

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catacgacgt tatggcctag gtaaaccgga agtacttgac gtgatggcaa tcatggtttc 120
tgaaaaaagc actgtgctga agatcatctc tgaactctta ccttatcccc tctttgatat 180
tgacaaatct gtggtgacag ctacacacat gcacttgagc cgatgatata ttctacgcct 240
acagataagc cctctgtaat gatactctta gaatcttctt cacttatctg catttcatgc 300
tacaattagc agttgccacc agatgcactc atgacatgct aactgctaac ttcttatata 360
tgaccattgg cctatacgat tatgtcgatg ataccttgta tactctt 407

<210> 17670

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-G10

<400> 17670

ctgtcgagta caagaacatt agtttcactg tttgggatgt cggtggtcag gacaagatcc 60
ggcccctggg gaggcagtac ttccagaaca ggccaagcct catttttggt gtagacagca 120
acgacagaga gcgtgttggt gaggccagag atgagctcca tcggatgctg aatgaggacg 180
agctccatga tgctgtgctt ttggtgtttg caaacaagca agatctgcct aatgccatga 240
acgctgctga aatcaccgat aagcttggcc tgcactccct gcgccagcgg cactggtaca 300
tccagagcac atgtgctacc tctggtgagg gtttgtatga cgggcttgac tggctttcga 360
acaacatcgc taacaaggct cgaagcatct aggcattggct tcaatcagtg gaagcaaact 420
gcctctacca ttacagctat gaagtatata gtcgtgactg tgt 463

<210> 17671
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-032-Q1-K1-G11
<400> 17671

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tgaaatcctt ttccggtgat gggtgggttg tacctaaact tgcaaagcgg atggacaagt 120
ttatgctata tctgataact gctggaaaga aagcattaga aaatggtgga ctactgaag 180
aactgaggaa cgagttggac aaaaccaggt gcggggctct cattggttct gcaatgggcg 240
gcatgaaggt ttttaatgat gcaattgaag cactgagggt ctcttacaag aaaatgaacc 300
cattttgtgt tccttttgca actaccaata tgggctctgc aatccttgca atggatctgg 360
gatggatggg accaaattat tctatttcca cagcctgtgc taccagtaac ttctgtatcc 420
ttaacgcagc aaaccaca 438

<210> 17672
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-032-Q1-K1-G12
<400> 17672

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aggttggcaa gaagaccctt gctattgatg attgtgattc cagacaatct gtctatgtgt 120
 atggatgcaa ggattctgtc cttcaagtaa acggcaaggt taacaatatc actgttgaca 180
 aatgcactaa gtttgggaatt gtattcaagg atgttgtagc agcttttgag attgtcaact 240
 gcaatggcgt tgagggtccaa tgtcagggtg cgtcaccgac aatatcaatc gacaacacat 300
 ctggatgtca attatactta agcaaagatt cgctgggagc ttcaattact tctgccaaat 360
 ctacgaaaat caatgtgatg gttccaagtg gtggcgctga tggtgattgg gtggagcatg 420
 cattgcccta acagtacatc catagt 446

<210> 17673
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-G2

<400> 17673

aacaataact ggtataagtg atatggatcc tttaagggtg aaaaactccc aatggcggaa 60
 tggtcacgtt gcatgggatg aagcagcacc aagtgagaga cgcaccatgg tttgcctttg 120
 ggaggttgaa cctgttatcg ctccattctt catttatccc tcgccattgt tctactgcaaa 180
 acgtccgagg caacctgggg taacagatga tgatagctca gaaatggaca atcttttttaa 240
 gcggaccatg ccatggtttg gtgaggaggt tggcaagaga gatctg 286

<210> 17674
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-G4

<400> 17674

ctaacttccc ggccgccgct ttccttgccc tcgatccaca gctcgcgccg ttcctgcaag 60
 ggcgaccca tcgggccggg tacgcactgc cgcccaacga tctacgagct gccatggcta 120
 actcagcggc accgggagga atgaggtcgt tctgcaggc cgtgtctacg gtcaccgagg 180
 aggcgccgac gccactccgc gtcgtccaga tggagggcct ggctgtactg aagatcatca 240
 agcactgtga ggagtttgcg ccagctttag ttacaggtca attgcttggt ttggatgttg 300

gtagtggttct ggaagtgacc aactgttttg cgttccctat cagggga

346

<210> 17675

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-032-Q1-K1-G5

<400> 17675

gcgtcggacn ctacctcect ccctctcccc tctctccggc acaggcaatt tagccctcga 60

ttcgaccccg agtcttgccg ccactaccgg gattgcctgc gccaaagcgc gatctgaacg 120

ctgcgatcca agtagtcgt cgaatccgcc atgaaagagg ccaaatccaa tggcgccgac 180

aaggccgatg ccaagctggc ggcgaagagc aaggtggcag acaagcccg ccaagggcaag 240

aaggggaagg acggcaagga cccaacaag cctaataagg ctcccagcgc tttcttcgag 300

ttcattgatg aatttcacaa ggagttcaag gag 333

<210> 17676

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-G6

<400> 17676

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acggatatgt ttgacgggtg cctacattgc attgaaggca tacgagccct taaaaacgag 120

catgatgaaa ttaatcgctg gtctgcttgt acacaacgtc aatttacgtt ctactgataa 180

tctgactgcc aatttcgttg acttcatacc aaagtgaaaa ttagtaccga gatgcttggt 240

actgggggtt tggtcttttc aaatctttat accttatatc ctattgtact tctatacctc 300

gtattaataa tcta 314

<210> 17677

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-G7

<400> 17677

gaagaacaca gggcacacgc actacacgca ctgcacgcag atacatatag agagagggtta 60
ggtatagctg gcacgggtat ttaactaact aactaactgg ctagctagct agatccgcat 120
agcaaagcta aagcagcaag aagcaaagca atggagaaca ctgcgagtgt gctagatcta 180
ccagcgcagt tcaccaaact caccttcgga aacctgtaca tccgccgggc cgggccgggc 240
agcagggaga taa 253

<210> 17678

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H1

<400> 17678

gacgaggata tccgactact cctggccaac ggtatccgcc agctggatac tccaaggcg 60
gagcggaccg ttcacctct cagggttacc cacatggcga gcgatatcct acacctgctc 120
aaggttactc ccaggggtcaa ggcggtgcat atcctacccc tggataattc cctgcacaag 180
gttgctacac cccagcagat ggctectacc cagcacaagg ttcctaccac ccagcacagg 240
gctactaccc agcacaaggt tacgattgac cagcacagcg atcctacca gcacaacgtt 300
catatcctac acccccagca caagggtcag ttccccatc acagggcttg taccatcac 360
aaagattcta cccacacag gcttaccctg gcaagttaag 400

<210> 17679

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H10

<400> 17679

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aaatgactca caggttggaac tagtgtggtt ttataatagg gcactgcgaa cgccacacaa 120
gaacaaattt attgctcgct caaaatcgta ccatggatca accttgattg cagctagtct 180

atcaggtctg ccagcgcttc atcagaagtt tgatctacca gcaccttttg tctgcacac 240
agactgccct cactactggc gattccgtct tctgatgag acagacgaac agttttgaac 300
tagacttgcc aataattcgg agaatcttgt cctcaaaca ggacctgaaa caattgctgc 360
tttcattgct gaacctgtga tggacgctgg tgggtttatc cttactccaa aaacctattt 420
tgagaagatt caggcagttc tgaagaagta tgacatcttg gtaattgcgg atga 474

<210> 17680

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H11

<400> 17680

aggctcagtc gttgactacc gcgaggacat tggatcaggc agatctttat ttgatgcaaa 60
catgggccta tgcgagcagc ctgaggagtt cgagttttac gatccgaaaa caccattctt 120
cacttcccct cggtacttgc caccaacgaa ctctataag tgcaagatta aagacgcgat 180
catttcacac ggctgcttct tgcgtgagtg tgccatcgac cactctattg ttggtgttcg 240
ctcacgccta aactctggat gcgagctcaa gaataccatg atgatgggtg cggattcgta 300
tgagaccgaa tacgagatct caaggctact ggcagagggc aagggtgcca ttggcgtatg 360
ggagaacacg aagataagca actgcatcat cgacatgaat gccacggttg gaaggaacgt 420
ctccataaca aacaaag 437

<210> 17681

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H12

<400> 17681

cgacggagcg gtccggatgg atactatata catggccagc gggcaatcat catgtgtgat 60
gtaacctgga agcttgctta caagaatggg ggtacgtggc ataaggacct gtgcagggtc 120
tgtgaaaaca tccacattgc actctgcggt aataaggttc atgtgaagaa caggcaggcc 180
aaagccaagc aggttacttt ccacaggaag aagaatctgc agtactatga aattttctgcc 240

aagagcaact acaactctga gaaacctttc ctgtacctag caaggaagct ggctgggtgat 300
 ccgaaccttc actttgctga agctgatgct cttaagccta cggaagttac catcgacatg 360
 gctatgcagc agcagcatga agctgagctt gctgcagcag ctgcacaacc tcttgctgat 420
 gacgatgatg atct 434

<210> 17682
 <211> 268
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-032-Q1-K1-H2

<400> 17682

gactcggacg cccacgcgtc cgccagacta cccctgggt gcaggctcct gcaactgcaa 60
 tgtcagcact gggagggtc tccggcaggg ggcagagtgt ctccggcctc atccgcctcc 120
 gccgtcagat ggcccccgcg ctgcgggcgc cgtgcacca cgccgctggg acgttgaact 180
 gcgccgcctt gccgatgcc gcccgcctcg tctggggacg ccagctccgc ccgtcgtcc 240
 tctccccgg cacactgctc ccgtcgtc 268

<210> 17683
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H3

<400> 17683

acggacgcgt ccaccctctc tcgcttacca aagagcttcc actacacaat cctcccacca 60
 tctctcaatg tgctgggtcc cgaccttggc gcagcatacc cacaccatat acagatccac 120
 tattcaaaaa aactactacc tcaccacat cgaccttaat tcattcctat ttcgcaccaa 180
 cagttaccaa aacatacatc actggatctc ataca 215

<210> 17684
 <211> 253
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-032-Q1-K1-F7

<400> 17684

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gggcctaaac gagggcaccg ttggccaata ctagtcacac atggcggttca caatgcctga 120
cctgtaccgc gttgtccaca gcattgatct gttctataca aagttcaaca tcttagatta 180
ctgtcacgga cctgtccatc tacttcccgt acaccgagtc gcacaagacg ctgtcatccc 240
ttcacccctga gat 253

<210> 17685

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-032-Q1-K1-D8

<400> 17685

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atgggtctgag aaaactggtg tatttggcta tggaattaca cttttagagc ttattacagg 120
acagcggggc ttcgatctag cttgccttgc taatgatgat gatgtcatgc ttctagattg 180
ggtcaaggga ttgctcaagg agaagaaact ggagagtctg gtcgaccaag atctagaaca 240
caactacgtc gacgttgaag tggaaatctct ggtacaagtc gcactactat gcactcagag 300
caacctcatg gaacgcccta agatgtcaga ggttgnagagg atgctcg 347

<210> 17686

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-D9

<400> 17686

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taccggtgat caccgactgg gtatgggctg gtacgcgggc ccgggggcag aggcccagac 120
gcagccggag ccgtacgtgt ccacgtgggt caagactgcg cgcaagtact acgacaccta 180
caaggcgcgt taccgggcgc tgcgcctatg atcccacgcc gtcgaccgga actgctgcct 240

atgcaggcgg ctacaggagc gggacctcct taggctcacc gccagggggg caccgagccg 300
 cgccatcaac ctggtgctca cggccggcga cgtggctcgt ggaccgattc tgagcgtaca 360
 ggtgcgggac gcacggtgcg ttcacacggt cccgtgccgg ccggttcacg tacgtgtggg 420
 taggcaaccc ggtgtaac 438

<210> 17687
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-032-Q1-K1-E1
 <400> 17687

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 ggcatggagc tgcgtgagca ctgccgcggt atgggtgaca acgatgagcg acactataga 120
 ttccattctc tgtgctgaca ccaagggtgct agaaccatta gttgggctaa tgaacacgga 180
 gcagcagcaa caatatcgta aggagaatgc atacgttgga caaatggtat gccatatctt 240
 cagttctctt atgatgcttc aacgctgcat cttcagtttt ctcggtataa aacagatcat 300
 agtcaatagt atacctatgt gtgaaatact gtaaaacttg catggtatat ggacctcaaa 360
 aagtatagga aagcgctatg ctatttgcat gtttgctggg agaaagaaaa gatatatgaa 420
 aggaattata caggttct 438

<210> 17688
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-032-Q1-K1-E10
 <400> 17688

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 gaggcaccac cacttcggga accaccacaa gaaggacgag gagcagcccg ccggcgagta 120
 cgggtactcc gagaccgagg tggtcaccgc caccggcgag ggcgagtacg agaggtacaa 180
 gaaggaggag aaggagcaca agcacaagca gcacctcggc gaggccggcg ccatcgccgc 240
 cggcgccctt gcactctacg agaagcacga ggcgaagaag gaccccgagc acgcgcacag 300

gcacaagatc acggaggagg tcgctgccgc ggcgccgctc ggcgccggcg gctacgtatt 360
ccacgagcac cacgagaaga agaaggacca caaggacgcc gaggaggcca gcggcgagaa 420
gagcaccacc acc 433

<210> 17689
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E11

<400> 17689

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aaggggccgt tctgcaaggc ggacctattc cacattgaat acagtctctc caaggactat 120
cacctcccgg gcttccgcga cggcatccac tactgctaca actacgacat ggtggcctgc 180
cctgcgcaag aagtccatct tccgactcgt ctcgctctac acgcagcact tactggcaag 240
gatgctcatc taccctgaaa tcatgggtacc gttcctcgac tagagcgcac agcggctgac 300
tgagcgccac gaccgcttca tcgctgacct acgcaaggtc ggcatatcct gccatggctt 360
caacgcgtgc ctcttaacct ggatggactt gcctatcatg ctactctaga agactcacga 420
cacgacactc g 431

<210> 17690
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E2

<400> 17690

gacgagcaag ggcaatgcat atgctgtatt gtgtgagtcc ataggtgtac gtcagctcca 60
gagcgagagt gcttgccctga tcagcgtagc ccaacatggc aatgctatac ttgtgatcat 120
gtacaaatat agagtacag aatacagcaa gggcaatgca tatgctcatg ttgccattgt 180
caccaatgat gtgtacaaga tcgccgagac gaatcatctg accaccaaag aactaggtg 239

<210> 17691
<211> 268

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E3

<400> 17691

ggacacggac gaaaaccatc agatctagca gaactctcgc gaccgcatcg gcgttggcgg 60
 agcgcatgtt ggccggggat ggcgcgaggc ggggtggagga ggagcgcggc ggcgcgggtc 120
 gcctggcgcc cggtcacggc ttgcctgtgg ctgcgcctcg ccgccggcgt actgacgctc 180
 gccagggcta agaaggacct gacagagggt acccacaagg tctacttcga catcgagatc 240
 gacggccagt ccgcatgcct gattgtca 268

<210> 17692
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E4

<400> 17692

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 cagacagtgc agaggccaag gaaggtgtaa aggcaacctg gatggcagac ggaacacagt 120
 ggccaggaac atggtttgac cctgctgaaa accataagaa agggcaacat gctggaattg 180
 taaaggttat gttgaatcac ccgggcgatg aacctagggt tgggtggacca gcaagtgtg 240
 aaaccct 248

<210> 17693
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E5

<400> 17693

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 cgggtctaac cctaccggta atagaataaa catagaaggc gctttctgtt tgccgtgttc 120
 cacaaggaag agagctagtt atagatcttt ccgagtgtac agattatttg gagggaagaa 180
 ggataaagat gagaatggcg atgaagcgcc atcgaaagca ggaatttttg gaaacataca 240

aaatctctat gaaactgtta aaaatgccca aatggttgtc caagtataag ctgaccgggt 300
gcagaatgag cttgcagcga ctgagattga tggatattgt g 341

<210> 17694
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E8

<400> 17694

gccgttcaat atcatctgca gcccaagttc gatgcatgag ttcggcatgg ggtggggatg 60
gctgctat tgggggtgag ttggtggatg aaaattcaag ttattgtcga agacaacaca 120
tttctttgca tattacatcc tgctatgatg ttctgaacta tgatgggttc aacgggtgcc 180
at ttttctct tagagctatt gttgacatgg aagaaatggg ggcagcacca gcttagtatg 240
gacaacaact gaaatctcct acagaagttg tttctaattg gctattgagc tccattgagt 300
taaggcctac gcaatcttgt tctccagtct ggctccaaga aaagctctat agtcccatag 360
tttctgctaa ggttcaacaa cttcaggatc aattataggc tgagaagcaa gaaaa 415

<210> 17695
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E9

<400> 17695

acgatccatt caagccgccg accttcatgc tactcacgcc aagtggacgc tttgagagtc 60
ataggaagat ttgttcgggc atatccaatt accaccctga tcaactggcag ccatcatgga 120
gtgtgcgcac agcggttggtg gccttcattg cattcatgcc aaccaaccct gctatgcatt 180
gggctcattg gattacaaaa aggaagatag acggacactc ggtataaaat cacctgaagc 240
accgtctaaa tttgtgtact cagaacgacc taaactaatt gatgagatcc atgagcaa 300
gctcagtaag gctgtactg tccccaaac gctaccaa 360
cgaattaccc gcatctgacc cttctggcga gcatgcagac aacgtagatg aaggcgacaa 420
cacatatgat tatgtatcag act 443

<210> 17696
 <211> 350
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-032-Q1-K1-F1

<400> 17696

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 cttcaccatg ttcttcgcct tcgcggtggc atcattgaac cttccctaca ggcgctcgcc 180
 acgcagtaca accaggacaa gatgatctgc cgcaagtgt atgcacggct gcaccccagg 240
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<210> 17697
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 17697

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 agatgatgca cgcgggcgcg tncgctacg acttcgaccg gttcggcgctc atcttccgctc 360
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<210> 17698
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-F12

<400> 17698

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atggtgccaa agtttatgat ggcaaattggg acattgggttc gaaccctcat ccacactgat 180
gtgacaaagt acttgtcatt caaagctgtt gatgggagct atgttttcag caaagggaag 240
atttacaagg tccctgccac tgatatggag gctctgaagt cccctttgat ggggtctattc 300
gagaagcgca gagcaaggaa cttcttcatt tatgtccaag attacaatga agctgatcca 360
aggacacatc aaggattaga ccttactagg gtgacaacta gagaacttat agcaaaatat 420
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<210> 17699

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-032-Q1-K1-F2

<400> 17699

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gtgccactga accagcagca cctgcttcag ctgatgcaga caagggcgcg gagaattcag 180
gccaggtgaa caccgcccc caagaaccga cggcagcgaa ctgcgacaag gggcagatcc 240
aacctgggtgc ctctgctgtc aggtgcacat aanggagctt ggtctccgat gagagaccga 300
tgctttgtgt gtttaaggca atacctcgca ttgctttga gaattataat 350

<210> 17700

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-F4

<400> 17700

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 gcagcttatg gtacgtatgc tatcatgcac actcagctgg ttggcatggt ctcgactctt 180
 cgagtgccaa tgtagatcga gccatacgct gaagagccca tctatgtcaa ctggaagcag 240
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<210> 17701

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-F6

<400> 17701

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 tgggcagacg gcggctggct taacacccat ctcatctgaa gcaggtagac catgctcatc 180
 gaccaggctc aggcgatcgt ctggcaatct ggcattggca acttgaccgg accatgtccg 240
 gtgagtcgct cgctgtcatg ctgttgcccc accggcactg cctatcttcc acctcaacca 300
 gcgttcacga gtactatgca aaataccttt tatgctgcta aaataacgaa atggacgtgc 360
 gtgcagacgg ccggattact ggcgctgccg ctt 393

<210> 17702

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-D7

<400> 17702

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 gatggccttc tcggcgtcct ctctgtgaac aaagttcaca aaccctgctcga 180
 atcgcatatt tctgttgaat tataatcagta tgtttgtttg aattactggt acctgagtc 240
 tgaatttata ttgttggtta aacctgttat gtgtgggttg gttgggtcgag aataactata 300

ctcacttctt tt

312

<210> 17703

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-C10

<400> 17703

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agcgaaactac atacctgcaa ttgtgccaac aacatcaggt aatacacgcg ctgccttctc 180
gcccatctaa atacattctg caagaactag acgctttacc ttattcaatg ccgttcagcc 240
atgcttgtct cgctcttctg cttctgttcc aacctgatgt tatgaaacgc cgtaaattc 300
taccataccg actacttcaa gtctcatctg ctagacttta acttatactt gcactgtact 360
actcattaat cgcttagctt gattatgccc agagcatata cctc 404

<210> 17704

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-C11

<400> 17704

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tgacaacatg tgctgcttca tcaaaccggg tgtgatcctg ctgtcgtgga ccgacgacga 180
gaaggattat cagtacgaac ggtcggtcga ggcgctgtct gttctctccc agtccgtcga 240
cgcgaaaggg cggcagctcc aagtggtgaa gatccacgtc cccgggcctc tgtacatgac 300
agaggaagag gcacagggcg ttgtttcatc gggacattct gtgccgaggc cagcgggcac 360
gagattggcc gactcgtacg tcaacttcta catcgccaat ggtgggatca tagcgccttc 420
cttcggcgac aggtggga 438

<210> 17705

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1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

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<210>	17706
<211>	333
<212>	DNA
<213>	Zea mays

<400> 17706

<210>	17707
<211>	364
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<400> 17707

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 gctcgacta agcaaactgc tcgcaagtcc actggaggga aggctcctag gaagcaactt 180
 gccaccaagg ctgctcgtaa gtctgcaccc acaactgggg gagtaaagaa gcctcatcgt 240
 taccgccctg gaactgttgc tcttcgtgaa atccgcaagt atcataagag cactgacctg 300
 ctcataagga agctttcgtt ccaaaggctt gtcaaggaga ttgccagga tttcaagact 360
 gatc 364

<210> 17708
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-032-Q1-K1-C5
 <400> 17708

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 agggagttgt cggtataggg aggttctcgg ggtgatcatg ttgcgatggc ttttcagacg 180
 ggggattcct atattgcgt ttctagaaac tgtagcgggt tttctgaagc tagtagaact 240
 ttgtaaaggc ctcgtagtgg atccatatcc attcaccgcg gaattgtcta agggctaac 300
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<210> 17709
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-032-Q1-K1-C6
 <400> 17709

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 ccaatggaat cccgtcttgt caagcaaaag tttactaatc ttgtgcatgg tctatatattg 180

aacagcaaca atggcacagg aagtaacagt tgcaagcaga tgggtcttgc tgactcgtag 240
 tgcttagcca atctgaccat gtcataagca gattttcctg caagggatat tatctgtgca 300
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 gtat 364

<210> 17710
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-032-Q1-K1-C7
 <400> 17710

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 cgtcgtactc gtctctctcg tcccagtgcc cgtccgcgag gatggcgctc acgacggccg 180
 gtgacgagac gtagecgcgc ttcgcgaagt tcgacgcgaa cggcgacggc cagatctcgc 240
 ggtccgagct ggcgggcgctg atcgagagcg tggaccacgc ggccaccgac gacgaggtag 300
 cgcgcatgat ggatgatgcc gacgcggacg gcgacagcta catcagcctg cccgagttcg 360
 cggcgctcat ggac 374

<210> 17711
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-032-Q1-K1-C8
 <400> 17711

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 ctgccgtggc ccgcccgggc cccggggcgc gcctcctcgc ggcgctcctc ctgctggcgc 180
 tggtcgtctc cgggcactgc ctggacgcgc accaccgcgg gctgaagcgc cggcggcgga 240
 agcacgagat ccattccccg gtcaagacgg tgggtggtggt ggtgatggag aaccgcagct 300
 tctaccacat cctcggttgg ctccgacgca cccggcccga catcgacggg ctacggggcc 360

gcgagtcctaa ccggcttaac gccttcgacc ccgcaatccc

400

<210> 17712
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-D1

<400> 17712

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caacgaatac cagataacca atggaaagga gctcaaccgt ttaacaggaa ttagtggaac 180
atgtgatttt gtcaaggcgg acttcatgaa gatgccgttc gatgacaaca cttttgatgc 240
tgtttacgcc attgaagcaa catgtcatgc acctgatcca gttggttgct acaaggagat 300
atatcgtgtg tagaagcctg accagtgtt tgccgtgtac gagtgggtgca ttacggatca 360
ctatgatcct aacaatgcaa cccacaaaag gatc 394

<210> 17713
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-D10

<400> 17713

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tcggaggccg ccatcacctg cgggcaggtg agctccgcca tcgcgccttg cctctcctac 180
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aggggcgtca gcggcctcaa cgccggcaac gccggcagca tccctccaa gtgcggcgctc 360
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cacgcgcg 428

<210> 17714

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-D11

 <400> 17714

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 ccccgacccg ctacaccgtc tcccggccgc ggcgccacct gtttggagag cgtcccgcgg 180
 tggccgccgt ccgcacctcc gctgctgctc cggcggcggc ggcggtgagc ccgggcagcc 240
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 actcacaaca gatatcgta tgggtgggtac tgtgactgac gatgcaagtg atgaatggct 360
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 tggacgcgat g 431

<210> 17715
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-D12

 <400> 17715

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 ggcagcttct ccatcgtagc ctgcacgggg gcgaggacct cggatagacc agcggcctta 180
 gcggtggcag acctgggtgg tggcgaggcc ttaaccggcg tgaaccctgc cgccgatttg 240
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 gcgtcgtgct aggggtttcga tggagaagag attgcggaac gaggggaaga cttttgccgt 360
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 tgtgacctgc acctgaataa tgtaa 445

<210> 17716
 <211> 347
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-D4

<400> 17716

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tactaaagat cactgatgaa tttggatcct ttgatcggtg ctgctggggt tatctgaacc 180

acaagcctat agtaagcaag ttccgctatc caagacaagt tcctgtgaag agccccaagg 240

cagatataat cagcaaagac atgatgagaa gggggttccg aggtgtgggc ccgactgtca 300

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<210> 17717

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-D6

<400> 17717

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aagacataat tggtcccgaa tactgttacg ctggtggagg tgaactccaa tcaacttaatg 180

cttggttttg tccagagggg acagtgacac cattgcacca tgatccgcat cacaacatct 240

tagctcaagt attgggcagg aagtatatta gactctatcc tgctttcata gctgaggact 300

tgtatccaca cacagagact atgttaagca ataccagtca agtagattgt gacaatattg 360

atttgaagga atttcccagg gttgaaaacc tggaattcat tgact 405

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<211> 415

<212> DNA

<213> Zea mays

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agccactgcg tcttggtgac tacccttgt ccgtgatatc attgactggg gaacgactac 120
ccttcttcaa agacgaacac aatgagaatc tatccggatc ctataacact gttgccgtta 180
aactactaca cctcagatt ctccaaatac atcgatatct caccaaacta ctcacctgtg 240
ctcaacactg acgacccta caccagtcaa gacattaaca tgcctcactg gaatcccatt 300
ggtccttcta tcggaaatcc atggatctac atgtaccctg aaggcttgaa ggatctcctt 360
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<210> 17719

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A11

<400> 17719

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tgagctcgca actcgcgctg ccgtcaacgt actaccgca gccggcccct ctccgcacgt 180
ccaccgacga cgctctggag ggcctaagg agttcgtggc cccgcagctg gaccccagca 240
cgccgtaccc gatcttcggc ggcagcacgg gcggtctgct ccgcaaggcg cacgtggagg 300
agttctacgt catcacgtgg acgtcccca aggagcaggt gttcgagatg cccacc 356

<210> 17720

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A12

<400> 17720

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gaggaggagg ttctgaatta ttctagagtt gttcttgatt gtgcaactgc tgatcctgat 180
ggccgcaaga gagcccttct cattggaggg ggcatagcta acttcactga tgttgctacc 240
acattcaatg gcatcatccg agccttaagg gagaaggaat ccaagttgaa ggcttcaaga 300

atgcacatTT atgtccgccg aggtgggtcca aattaccaat ctggactggc taaaatgcgt 360
aagcttgggtg cagaactcgg cgttccaatt gaggtgtatg ggccagaagc gactatgact 420
ggaatctgca aacaagcaat tgaatgca 448

<210> 17721
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-032-Q1-K1-A2
<400> 17721

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agccaaaacc cgacgggtgaa ttccccgttg ccatctctac ttgccagtcg agatggaata 180
aaataaatgt caggcgcacg tactgacgtg ttattacgat atttctcccc tacagataaa 240
tgctctgttt attccctgcc taacttatct aacttttcta tttaaagttg aagttagtta 300
tttaattcga acaactaatc ttaaataaaa tatggtatag ttagccacaa atcagacaga 360
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gaatttacac 430

<210> 17722
<211> 413
<212> DNA
<213> Zea mays
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<400> 17722

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tcaaggggga aggtgttaag atctggttat tggcaataat ttacttcata tctggtgttc 180
ctggagcata tgttttgtgg tatcgtcctc tgtataatgc aatgaggact gatagtgcac 240
tgaagtttgg attgttcttc ttgctttact tgttccatat tcttttctgc gtgtttgctg 300
ctgaggctcc tctgtctgta tttgagggat aatcattggc aggaattttg ccagcaattg 360

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<210> 17723

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A6

<400> 17723

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catacttaat ccagggctat agtttaacaa aaacaactag acctaact gtcttatata 120

tctactacat gaccctagtc agaactactg gcatactgc cacctacacc ataaattctc 180

tgaaaaaatt acccgagatg ggctatgatc cactcggaat ccct 224

<210> 17724

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A8

<400> 17724

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ccaaactcca cgtgtctggc taactggata tgacgagtc agaatgccat taatgcctga 180

acttgtgttt gaagacatca gccaagacca cgcacgaaaa acggtgacta ttgaggacca 240

tcctcactta ttggctggga agcatgcac agtgcacca tgcaaactg cagctgtgat 300

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<210> 17725

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A9

<400> 17725

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tctaccatca gcgaagtata caaagatacc cagtctcgtg catctggtga agcatgcaat 120
gatggtcagt ctcatgggtga tgaaaatatg aaacttgggtg aagcttacac tgaactgcag 180
ctggcacctt cctctggtga ggacgccatg acatgtatct gtagtgagct gccagccat 240
gaggtggagg ctccaagcag tgaccctttg gagaataatg aagaaacgaa aaatgaaact 300
gctgctcaag gatcagtaaa tgaggattct gctcctcgtg ctgaacatgc acagattgat 360
gaagctgaca cagaacacga actgcttcca tctgggtg 397

<210> 17726

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-032-Q1-K1-B1

<400> 17726

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gagcgcacgg gggtnagcga tgctgagcat caccagaagc agagcctgat ggacaaggct 120
aaggggttcg tcgcgagaaa gatcgcgcac atccccaagc ccgatgccac gctggacggc 180
gtgacattca agggcctgag cggggagtgc atcacgctgc acagcagcgt gaacgtgtcc 240
aaccctacg accaccggct ccccatctgc gaggtgacct acacgctccg gtgctccggc 300
aaggaggtgg cgtccggcac catgccggac cccggctgga tc 342

<210> 17727

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-B10

<400> 17727

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agtgccctgc ccaccccgga tgctcttccc gaaccgcatc aactacctgg ccccgatcct 120
cgcctccgcc gccatcctgc tctcctact ctggggtac ttctagctcc cttcatctc 180
caccgcgaca ccaatcctcg cggacgcaac gcgcttacct accgcgctcg actccgtcag 240

<210> 17730
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-B2

<400> 17730

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atggtactgc aattgcacgt ggggtcctaa tgtatctatc tcaaggggaac ctgagagatg 120
caaatttact tatggatgag atgaaggaac aactaaaatc tgttaactcg gattttccga 180
aaacagatth gattcagttc atcatgtatc ttttaccac gcttgagaga gatgcttate 240
ctcttttttag gacacttcga cagaagtata agacaagcac agatcgtgac actgtgtttc 300
aggagttact ggacgaaata gctgcaaaat tttacaatat acaacgccag aacccttttag 360
aaggactttt cagcgaaatg ttcaagatat aatgcatgag aaaagaa 407

<210> 17731
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-B3

<400> 17731

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cagctgggtc gggcagaatc agacggccat catgtctgag gagaagcacc accacttatt 120
caaccaccac aagaaggact agtagcatct ctacagcaag tacggatact ccgagaccga 180
agtcttcacc ttcaccggca aaggctatta ctagaggtac aagaaggacg ataacgagca 240
caaactca 248

<210> 17732
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-B4

<400> 17732

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gccgagaaaag gaagaacaga tctagtatgt cgtctgaatt cataatatgt tcttcctttc 120
agctgagaaa tttagtatgg gcaacatcga agcatgatgt ctacctgtta ttgcattact 180
ctgtacttca ctggctcgcc ttaaattggtg tggatacaga aattatggat gtacatggac 240
atgttgacc gagtgagaag caccaggaa gcttattaga aggttttgtg cataactcaa 300
ttagtaccat ggcaatgaaa gataatttgt tagtagctgg tgggtttcaa ggagagctaa 360
tatgcaaaca c 371

<210> 17733
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-B5

<400> 17733

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ccccgtgcct gcttcttgt gtacagcatt attggaagcg tttcgcttgg agactaagga 180
tgctaggata aatgctatgc gttcagctat atctgagaca tttcctgagc ccaatcggag 240
gttgctgcag agaattctaa aaatgatgca cactgttgca tctcacacct ctgaaaatcg 300
aatgactgca tcggcagttg ctgcctgtat ggcgcctctt ctgttgctgc cacttctggc 360
tggtgaatgt gagatggatg aagtatttga tatggatggt gatgattctt cacaggttct 420
tgctgcagca aacgccgcaa acagtgc 447

<210> 17734
<211> 296
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-032-Q1-K1-B7

<400> 17734

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atgctgggag gcgttgatc agatgagcaa tggatcgaat cttgcacgag ctacagtcac 120

acaaagtact aaaaagaaag agctggcttc tcccagggtc tcgagcacat ctgaaatgcc 180
actactataa tgtggcacga aagaagtaca caatgtggac gacacagcaa taaccaatca 240
aatgactaga cataatcatt gcgcaatggc ctaaatttgc tgtgttcata ccaaac 296

<210> 17735
<211> 329
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-032-Q1-K1-B8

<400> 17735

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ggaaanattct cttgggttgc acactctgtt ggatgattgg ttgctagata tgctattgta 120
agactttata aaccacctaa acgaacatca gaaattactc cacaaactct gtattacaac 180
aatatatgta ccatacatgg acttgaggca ccgaacttta taacagttgc gttaccgcat 240
cttgcttcca gaggaactaa tcaggttcct ttactatgtg gaagtactgc atttgaaaat 300
agtgcattgct acattattca attgatatt 329

<210> 17736
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A1

<400> 17736

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tacggaacag gatccaggac aaaacagaac caaaatttg actcccgag ttcttagcta 120
taatatagat atcgcattta gacatgcacc cgacgagtag agctctccac tcaaaccatc 180
ctaagcctct actgtctcag ttggggcctc gagcacaaga cccttggtgg gctttgccag 240
caggtcgggtg tactgctgga acggggccat ggagaacttg gtctggctcc agaattcagg 300
agtgaggaag ccgtaagtct tcatcaggca gtcgaaggtt gccttgacga agttgccaag 360
ggtcttaatg gagccac 377

<210> 17737
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-G5

 <400> 17737

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 attggagagg gttacaattc cactgccatg cccgagcggc tctgctgttg ctggtgtctg 120
 aaagatgttt agggctcaac cttggctaag accggactgc attgtcggaa atacggcagg 180
 aacctcatag tagctcgttt ctaccttgat gacaaatgcg aagctgatgc agacgactga 240
 aacgatgcta gaaccccgat catacagtta ctgttatggc acacaatgct gttgattcga 300
 ccttatgtag ttaacattgg tgatcgatcc gctgataaat tatataagta tcatgcactg 360
 gtattatata aatcgcagtg tatctgggct gaattggctt gacggttat 409

<210> 17738
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-G7

 <400> 17738

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 tgcaggacta agtaatacat cagagcttta aggatattca gcgaggatcat tgtataacgc 180
 cttacaagaa tatggtaaac agggaagctt actaagagta gctgtttgat gcattggaga 240
 atatggtgaa atgctggtga acaatgaagg catgctggat ggcgaggagc cacttacggt 300
 cacagaatca gatgctgtgg atgctgtaga ggtcgatcct aaccgatac 349

<210> 17739
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-G8

 <400> 17739

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cagtatccccg ctctgacacc agctcctcgt atagcatcgt ccatactagg gctgcgtaca 300
ccgacatgct actgaaaaag agatagatct ttatatacgc aaactggtgg agatcgcttt 360
ggcgaaagaa atgtattgct agcatcaagt ctgtcgagac aatacaacca atacaagctt 420
gtgcc 425

<210> 17742
<211> 82
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-H10

<400> 17742

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aatgatggac gtgatcagca cc 82

<210> 17743
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-H11

<400> 17743

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gggcagagaa tccgtaggcg cgccatcac gattccgaga tccgtgcctc ttatcggcag 120
ccatgatgct gcgcgcggcg ggcaggcgac tcctcggcgt aggaggcggc gatccagcgc 180
ccgcggtcgc tgetgctgtg gcggcgagca ggagcagagg ataccacgag cgggtggtgg 240
accactaaa caaccgcgc aacgtggggc ccttggaaca ggacgacacg gacgtcggaa 300
cggggatcgt cggcgcgccg gcgtgcgggg acgtcatgaa gctgcagatc cgcgtcgacg 360
aggggtccgg caggatcgtc gacgcgcgct 390

<210> 17744
<211> 482
<212> DNA
<213> Zea mays

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-H3

<400> 17746

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gatcatcgcc cagtacatat ggatcggtgg atctggcatg gatctcatga gcaaagccag 120
gaccctcccc gaccgcgtga cggatcccag caagctgccc aagtgttaact acgacggctc 180
cagcaccggc cagtcccccg gcgaggacag cgacgtcatc ctgtaccgcg atgccatctt 240
caaggaccca ttcaggatgg tcaacaacat ccttgtcatg tgcgattgct acaccccagc 300
tggcgagcca attcccacca acaagaggta caactgccgc caaaatcttc aacaacct 358

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<210> 17747

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-H4

<400> 17747

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cagcaccacg ctgagctcca cagtggttct tgcagaggtc tgtgatatac tactaggctg 180
aatacaccta cacaagaag agaaaagggg atcttggaga ggtttgtgac acactactgt 240
ggtgaataga cctatgcaca agagaaaaag ggaaagagag aatgttctca atgaattgaa 300
gtccctatgt caaaaacaag agcaaggagc tgttgtaaa gtggcttggt gaaggagcat 360
atcatatatt tgtaggagat aactttacac ttgattcatg ggcgactgga ttataggggc 420
attgataaac atcgtttaga atgttgcaat aaactttggt accaaacttt t 471

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<210> 17748

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-031-Q1-K1-H5

<400> 17748

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gcagcgcagc cgccggccat ggctgcctc accgacctcg tcaacctcaa cctctcggac 120
accacagaga agatcatcgc cgagtacata tggatcggtg gatctggcat ggatctcagg 180
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tacgacggct ccagcacccg ccaggccccc ggcgaggaca gcgaggatcat cctgtacccg 300
caggccatct tcaaggaccc attcaggagg ggcaacaaca tccttgtcat gtgcgattgc 360
tacacccag ctggcgagcc aattcccacc aacaagaggt acagcgccgn caagatcttc 420
agcagccctg aggtcgctgc cgaggagccc tggatatgta 460

<210> 17749
<211> 458
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-031-Q1-K1-H6
<400> 17749

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cagcaccagg ctgagctcca cagtgggtct tggagaggtc tgcgatagac tactaggctg 180
aatacaccta cacagagaag agaatagggg atcttggaga ggtttgtgac aactactga 240
ggtgaataga cctatgcacg aagagaaaaa gggaaagaga gaatgttctc aatgaatgga 300
agtccttatg tcaaacacat gagcaaggag ctgttgtaga agtggcttgt ggaaggagca 360
tatgatatat tagtgggaga taactttacg cttgattcat gggcgactgg atttataggg 420
cgttgataaa catcgtgggg agtggttgca tagacttt 458

<210> 17750
<211> 321
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-031-Q1-K1-H7
<400> 17750

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acaataacac ctgtaaccgg atcagctcaa aatcctactg tggaaaggcc ctaaaaatct 120
 accaaaaatca tattccatgg acttatacta aataaaatac cactcttctt aactgacata 180
 tcaaccatat atcatactca gaatcaacac cagcaaactc tcaagctact tcacaaagcc 240
 tacaaaacttt acaacactta tgccttacag cataacacca ttactgacat tcaaccataa 300
 atgggcgttc ttcactacat t 321

<210> 17751
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-H9

<400> 17751

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 attcaagaca tggcggaat gtgttccagg cacggttcat gccctgctca gacgatcgga 360
 ccattgtcac ttgtgctgct gatggcaaag agaggcttgc caagatacac gatgctcgaa 420
 acgtgtccac aacattgctt ggtgaaca 448

<210> 17752
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G4

<400> 17752

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 tggtttgaga agtactacaa atccagaaaa aggctatgga aggattcctg ctgtgggcaa 180
 ccagcataca agcaaccata tcaatggaca tatggaagaa agcctttaag gaagcgtcag 240

aactgctttg cctagtaagg gcagctgggc atgagtgtgg atgtttgcct atgttaacca 300
 agtttgtcat gtagcagtgc atagctaggt tggatgtcgc aatgttcaat gctatctagc 360
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<210> 17753
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-031-Q1-K1-F11
 <400> 17753

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 ctgggccggc gcagggttcg ccgacccgga ccccgccctgc atcttctca acctcccggtg 180
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 aatggagcgc tttgattctt ctgctcttgg ttgcatctgc taattgattt agcagtgggtg 300
 gtaaggtaca cgcacgacga gctgactgcg tggttcttgg tttgggcctt agtatatgat 360
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 gaatttttagt ttctgagatg aaaaa 445

<210> 17754
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-031-Q1-K1-F12
 <400> 17754

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 gtggacagag ggttttccga ccatgcattt cttgaggggg ggccattgca ggcccttggg 120
 tgtcttatga gggagggctc ggtttatttc acttggcttt gtagaatact gataactaga 180
 aaaagtagta ggacctcacc ttcgtgtatt atgatgatgc acatacaatt ttctgagtag 240
 aatggatgtt gaatcataga actaatgaat aatatgaaca ctcgtcttcg cccaagtgc 300
 tagtttgg 308

<210> 17755
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-F2

<400> 17755

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atgaaagact gaatggtcag gaccagctgg tcatacttac tgccaaggac aaaattgatg 180
cagcagctgc tgaagtttta gaacctcttg tcatgaaaat caaggatgaa aagtatggat 240
ggaaatatgg ctgtggagcc tagggctgta caaagctttt tcatgctcct gagtttgttc 300
acaagcattt gaagctcaag catccagacc ttgaattaga gtcaacgtca aaagtctcag 360
aggatcttta ttttcaaaat tacatgaatg atcctaac 398

<210> 17756
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-031-Q1-K1-F3

<400> 17756

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ggcagctcct cgccacgcgg cgtcttctct gccctgctg ctgctcctgc tcggcctcca 180
cgccacgtcc gccgcgcgcg cgcgcgcggg cgtcgccgtg gacgcgcgagc tcacgtccac 240
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cccgaacctc ccgggcttcg gcatccccgg gatggggcga ttcggcatcc ccgggatggg 360
cggcggcggg tggggcgggc gctacggcgg gcccgggcgg gggtacgccc gcngcggcgt 420
ggtggcgccc accgtgacgt gctccgaga 449

<210> 17757

<211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-F4

 <400> 17757

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 gttgctgac tttatccaca atcatctgca agatggtaat accttgacta actacaacat 180
 acataaagag agcacatcta catctacttc tactcctcag agatatgtat cacatgttct 240
 gtgaatacat actacttcaa caccatcacc atcgatgtaa tatcatacc 289

<210> 17758
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-F5

 <400> 17758

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 gcaactgccg cacactgcgc taggatgctc tttgagaaca gccgctagga ggcccaagca 180
 aagaaggccc gacaggcgct gcaagcttgc catgacaagg acgattccca ccaactgaac 240
 tatgacttga gaaatccatt cgctgcttgt agccctacgt atgttgctat ctatggtgga 300
 caataggatg cttegtgctc atactgagga tcccgatttg catcttccat ctaaggacag 360
 ctttgtagca tatgcgatct tgctgccgct ggggcagatg catcacgcct gctctgctct 420
 catacacagt cgacgatcag cgatagta 448

<210> 17759
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-F6

 <400> 17759

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 cttgtgagca gctattcaag attatgtgcc acagtggaa caagggacga aggaggtacc 180
 agtggagggtc gggcatggat tgcaactgga agtgaaggag aaatctatct cgcgttcttc 240
 aatctcgact ccatgagcag gacgatgacc gttgaaatat cagaccttgg aaaggttctc 300
 ggaagaaaacc ttttggagaa aaacccatgt agctacactg aagtttggag cggaagaat 360
 ttcggtcccg tgaaggaaga gatttcagcg gtggttcatt cgcattggctc catggtgttc 420
 gaaatcatat gttgagattg cagtactggg caagttgt 458

<210> 17760
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-F7

<400> 17760

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 ggggagcgga tgccgcccga gagccaaagc caccggaga acagctatca ggctgtgccg 120
 tcgtcacaga ggatgccgtc gttcttctga ttctacaagg ctggccctac gtccgatcgc 180
 tgtatataaa aagaagtctc tcgttcgtga tctgagacag cacattgagc gaagatcgac 240
 tgcactgcat tctccagcgt tggaacctgt gtgatgttta tgccgctggt atttcagcga 300
 tcttctttgt ctctccgac cagcactctg gtttcattga gcgctgtaga ctgtctgtcc 360
 taactgatgt cttgcgttca ggaggacgat ctggaaacgc gagccgaagc tgaactgcat 420
 ctctagtcgc cgggtgctaaa agatgccgtc cgcttatatg aaa 463

<210> 17761
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-F8

<400> 17761

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caggattgac aacgtcaagg ccaagatcca ggacaaggag ggcattccac cggaccagca 120
tcggctgac tttgacggca agcaactgga ggatggctgc accttgctg actactacat 180
tcagaaggag agcacccctcc acctgggtgct cctactcacg ggtgttatgc aaatttttgt 240
gaagacattg actggcaaga ccattaactt gcaggtggag tcgtctgaca caatcgataa 300
tgtcaaagcc tagattcagg acatgcaggg cattcacatc ggaccagcag cgctgatct 360
ttgctggcaa gcatctggag gatagtcgta ccctattcga ctacaacatc cat 413

<210> 17762

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G1

<400> 17762

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gtctcggtca gcgtactcta atgtcctggc tatgccagtc tagcaatggc ggtgccactg 120
aacaaatgac atacacggaa caaccgctag aaagactaga ctacttacgc acggagcttg 180
atgaacactc atcataagcc attaaagact tgctttcaga tgctcgccta gtgcgattta 240
ttgaatcaag gaactgcaat gatgcataaa gctagtgaag tgatgaaagc agctgtgaag 300
tggccgcttg cattcaaacc tgaaaacata tgctgggatg atatagcaca ggaagcagac 360
actgcaaaga tatatagcgc agtattataa ggacaaacat ggcacaactg ttattgta 418

<210> 17763

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G10

<400> 17763

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tatccacact tatctaacia agtacttctc attcaaagct gtttattaca actatatttt 120
catctaaagt aatattttaca atttcctctc cccttatatt taggtcttaa actccccctt 180
aatagctcta ttacataaac aaaaaacaag caacttcttc atttatttcc aatattacia 240

tgaacctgat ccatggacac atcaatgatt aaacctt

277

<210> 17764
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G11

<400> 17764

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gatgccacca aatcactggg tggtttagta gatcatgctt cagaccacat gcatgatgaa 180
aagatcgtat ctagaacctt gtttgtcatt aaagaaagac tagaattgct acagcaagat 240
gccttagatg caaaagtgca agcatttcca gaaattgcta agtatcatgg ggatgacata 300
agtcttgaac ctacaactcc atcgacctct ccaactgtta ctgatcgatc ttttgatgaa 360
tacgagaatg tactgacccg atgtcagtga tgagtggtag ttcaccgatt ctgataggtc 420
tacacgcaat agctactgga atatttatta 450

<210> 17765
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-031-Q1-K1-G12

<400> 17765

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ttgggggtgat gcagagaaac gtgagattta tgatcagtat ggtgaagatg cccttaagga 120
aggaatgggc ggtggaggat cccatgttga tccatttgac atcttctcat catttttttg 180
accctctttt ggaggaggtg gtggaagcag caggggaaga aggcaaagga ggggagaaga 240
tgtagtccac ccacttaaag tttctctgga agatctttac aatggcacct taaagaagct 300
ctctctttcg cgcaatgtca tctgctccaa gtgcaagggc aagggctcga agtctgggtc 360
ctcaatgagg tgccctgggt gccagggctc angcatgaaa gtcactattc gtcagctggg 420
cccttccatg a 431

<210> 17766
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G2

<400> 17766

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gtacctggcg gagctctaca ccaaggagtg gacatctgac gccaaaggctc agtaggacgt 120
gcaagcggat cggctcgcgg atgaccgaga tcgacaagcg cgtcagtcac acatgaacgc 180
gtaccctcgg ctaaagaacc gagacggacc agccgagttg ccgtacacgc tgctctaccc 240
caacacctgc gacaccaaag gcgacgccga cggcatcacc gccaaaggga ttccaaacag 300
catatgcatt tgagttctgt ctgagctgag gacgtacggt cgtcgcacta gttgctagcg 360
tttgcccgtt ccgttccgtg aagcgtgggt ctcacttgcg cggatttgag caaatagtcc 420
agtactcctt atcgaagttg gtacgttagg actg 454

<210> 17767
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G3

<400> 17767

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tatctctggc tggaaatcat gtgaaggatg acatatgtca tgcccttatt gttgtactaa 120
gtaatacatc agagcttcaa ggatattcag tgaggtcatt gtataaggcc ttacaagaat 180
atggtaaaca gggaagttta ctaagagtag ctgtttggtg cattggtgaa tatggtgaaa 240
tgctggtgaa caatgttggc atgctggatg gggaggagcc aattaaggta acagaatcag 300
atgctgtgga tgctgtagag gtcgctctta accgctactc agcagatatg acaactggag 360
caatgtgtct ggttgctctt ctgaaactct cctgacgatt tcctttgaca tcagagagga 420
taaaacaaat agttgcccag aataaaagga ctgttgcct ttgactacag caaagatcaa 480
t 481

<210> 17768
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-F10

 <400> 17768

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 ggggtcggcc ggcgagcgag cgggggtccg cgggctgggc attggttcgt gctcgctcga 120
 tcgatcagaa aatggctcat cgtgtgaaca acgagtacga ctacctcttc aagatcgtgc 180
 tcatcggcga ctccggcgtc tgcaagtcca acatcctctc gcgattcacg cgcaacgagt 240
 tctgcctcga gtccaagtca accatcggcg tcgagttcgc taccgcgaac ctgcatatag 300
 accggaagac tgtcaaggca cagatatggg acacggcaag gcaggagagg taccgcgcca 360
 tcaccagcgc ctactacagg ggcgcggctc gagcgcttct agtctacgac atcaciaaaga 420
 agcaaagctt cgacagcg 438

<210> 17769
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-D7

 <400> 17769

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 ggagggcaac aagaggtggt tacaggtaga ctaatagatc tactgctggt gagggagttg 180
 atgcaaagct gagttgctgt gcgtaggctt tatttagaga tggcttttagc tggagttgcc 240
 cgttcatggt acaagaacat tactatgacc atcattggtt ccgaaaagtt gcgtagatca 300
 catgaacgag ctaaagatta gagatgatac gtgagtataa gcaaccataa ttaatgggat 360
 aggtatcgat gcttgtcaca taattgtcac aactactggt ggcaagaa 408

<210> 17770
 <211> 462

<400> 17772

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gcagcgggca cggcgtctgc acaggatcac cgtccgcgct ggcgttgccg tcgactccat 120
cgagttcacc tacaccgacg acgctgggca caggcgcact gctgggaggc ggggtggact 180
tgggcgcaat gttcgaacga tcgaccttgg cgacgcagag gatgtcaggg aagtctcggg 240
aacatacagc gcatttgaag gtgccattac gctgacctcg ctcaggctcg tcaccagcag 300
cagaacctgg ggcccctggg gggtcgagaa cggacgcgtt tctc 344

<210> 17773

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-031-Q1-K1-E10

<400> 17773

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taggggacag gatctagcca gccggcgagg agccgccgtt gcttcttagc tgcacctccg 120
cgcgcggtct gcatgccagt cggctctgat ccacggccgg ccgaagaaga agacgccgac 180
gatgaagggtg tcggtgctgg cgctgtggtc ggcggcgcca gcgctgctgc tgggtgctggt 240
ggcgcaggcg ccgtctgcgg cagaaggctc ccaccacggc ggcgcggggc tcaagctggg 300
gtactacaag aagacctgcc caggcgtcta gaacgtggtc aagtaccacg tcgacaatgc 360
catcaaggcc aaccgctgcg ctcgcgccgc gctcgtncgc ctcattctcc acgact 416

<210> 17774

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-E11

<400> 17774

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gggcagctca caaaccttgt tctggtagac ctctcggaga atcaactgac tggggcaata 120
cctccacagc ttgggaacct ctctaacctg acacatttca acatgtcctt caataaccta 180

tctggcatga ttcctcctga gccagtcttg cagaaatttg attacactgc ctacatgggc 240
aaccagtttc tatgtggctc tccattgccc aataactgtg ggaccgggat gaagcaccgc 300
aaacgagtgg gtgtgcctgt cataatcgcc attgttgctg cagccctcat acttattgga 360
atatgcattg tttgtgcttt aaacatcaag gcttatacgc gtaagagcac agatgaggac 420
atgaaggaag aagaagaggt tcttgtgtct gaa 453

<210> 17775

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-031-Q1-K1-E12

<400> 17775

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tcctcaccta caccttcaat tactattacc ataagtacaa taatcatcat aatgatcaca 120
atcacaaaca acacctcttc caagccatca ccatctcttc cagctccttc tcaactctacn 180
agaagcacta agcgaataaa gacccttagc aactcacaa gcacaagatc actgaagatg 240
tctctgccac ggcggccgct gactcctact gctacgtatt ccactagcac ca 292

<210> 17776

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-E2

<400> 17776

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gacactgtgt gggcgatcat gaacgcgctg tgaaactggc tgctgaacct gcgccgaac 120
ccgctcgcgc gcctcgacat gaacgccgtg ttctcgcgcc ttacgaaata cgggctgtag 180
tacgatgacc tgtacgacct ctatttctac ctggacatca aggaggcgct cgggaggctg 240
actagggagg tggtcgacgc ccgcatacag cgcctcaagc gcgccatgga cctctgcatg 300
aagcatcagt acctacatcg aggacctaca ggcacagcag gtcccattca gaggatattt 360

gaatgacatg tcggctatgg tgaacaagga aagcgctgag cgtgaagcac tgggagccct 420
tccactttat cagagaacgc ttacctaaat cgctggctaa acatg 465

<210> 17777
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-E4

<400> 17777

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cgatcgcgga agccagcggc aaagcaagca cgcccgtgtc tacaggcagc tctttccata 120
tggcgcccaa gaggagcagc gaggagcgcg cggcgggcga gcaggagcag ccgaggctcc 180
gcggcggtgcg gaagcggccg tggggcaggt acgcggcgga gatccgggac cccgtgagga 240
aggcgcgcgt gtggctcggc accttcgaca cgcccagca ggccgctcgt gcctacgacg 300
ccgcccgcgcg caggctccgc ggtccgagcg ccaccaccaa ctaccccggc gacgtcgttc 360
gagaagcgcc gtgcacggcc ccggctctgg ctgcgagcgc gagcggcagc accgagtcgt 420
cgtcgtcgtc gtcgtc 436

<210> 17778
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-E5

<400> 17778

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cgcgggagat ggccaagggtg ttcagccggc tttcatcaa gatcgacatc ctgatectca 120
tgcacatcct caacgccggc caaaaacca ccattctata caagctcatg catcgccaca 180
tcgtcaccac catccccacc atcatcttca atgttgaaac tgatgattac actaacatta 240
acttcactgt ctgctacgct gactgtcatg acaagatcag acctatgagc aggcattact 300
tgcagcacac ctagcgtctc atccatgggtg tgaacagcaa tgaccgcaac catgaccatg 360
aaccagaga tgaactccac aatatgctga acgaggatca gctacatgat gctgtacttg 420

atgcttttgt caacgagcaa gatc

444

<210> 17779

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-E6

<400> 17779

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ggagaaggcg gacatccgcg ggctcatcca cgcagcgctc cgcgtcggct accgccacct 180

ggactgcgcc gctgactacc agaacgaagc tgaagttggt gacgcgcttg cagaggcatt 240

ccagaccgga ctcgtaagc gggaggacct gttcatcaca accaagctgt ggaactcaga 300

ccatgggcat gtgcttgaag cctgcaagga cagcctgaag aagctgcagc tagactatct 360

cgacctctac ctcatccact tcccggtagc cactcggcac accggagtcg gcacgacttc 420

tagcgctttg ggtgacgatg gcgtgctgga catcgaca 458

<210> 17780

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-E7

<400> 17780

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cgggcggcag caggcagcca tcatgtcgga ggagaagcac caccacttct tcaaccacca 120

caagaaggac gaggagcagc ccgccggcga gtacgggtac tccgagaccg agtggtcac 180

cgccaccggc gagggcgagt acgagaggta caagaaggag gagaaggagc acaagcacia 240

gcagcacctc ggcgaggccg ggcgccatgc cgccggcgcc ttcgcactct acgagaagca 300

cgaggcgaag aaggaccccc agcacgcgca caggcacaag atcacggagg aggtcgctgc 360

cgcggcggcc gtcggcgccg gcggtacgt attccacgag caccacgaga agaagaagga 420

ccacaaggac gccgaggagg ccagcggcga gaagaagcac cac 463

<210> 17781
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-031-Q1-K1-E9

<400> 17781

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 cgcgttcatt gactgtgttc aatccatgca agctcaagtc acctgcgcca ttgtccacca 180
 tgtccgacaa catctgccgg tgcaacgatg ctctaagtag cacgttggtc tcctcctcaa 240
 tgtctccgac ctccaacacc aatatcatat gaccgggaat caaaacactt tgtgctaata 300
 gtcacaataa ttgctttcaa tatcggacag agtttggtta caccaaacad ttgcaaagt 360
 acgacgttgc acaaaata 378

<210> 17782
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-F1

<400> 17782

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 aagctcgtcc tcaatatctc cgtcaggag agcggcgacc gtctcaccg cgccgcaaag 180
 gtgctcgagc agctcagcag gcagaccccc gtcttctcca aggcgaggta cacggtgcgg 240
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 ggccatgcaa ctgcttgaga gccgcctaaa ggtcaaggag taccagctgc tcaggaggaa 360
 cttctgcgac accgggtgct ttggttt 387

<210> 17783
 <211> 442
 <212> DNA
 <213> Zea mays

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 actcatgata tggactcgct aaagaatgac gtccttgaga aatggacact agcgaaggct 240
 catggaacaa ctctcaccct accatctgat gatcacatag gcatcagtga agttggacac 300
 attgcacttg atgctgggtca aatactcgcc catagtgtca agcttggtcga acaaac 356

<210> 17788
 <211> 156
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-C4

<400> 17788

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 aatctgggaa atcgctcagtt ttactagatg tgaagccatt taacgattac actgttatgt 120
 acaagctcat acaagctggt aggagtgtat agatgg 156

<210> 17789
 <211> 269
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-031-Q1-K1-C5

<400> 17789

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 acctaccgt acctgttagc tctccatcgc ttcggtcgaag gctaacacct acttcccatt 120
 ctttctctat gtctgccatt accctccatt gtcccttagc tctcctctc atctctctcc 180
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<210> 17790
 <211> 170
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-C6

<400> 17790

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aagcctcctt gctaatacgt actagtgaag gctcatggaa cagctgtggg cctaccatct 120
gatgatcaca tcggctacag gatacaaggt tacaatgcac ttcattgctag 170

<210> 17791
<211> 459
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-031-Q1-K1-C7
<400> 17791

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ctgttacaac cccaacacca tcgcgggtca ctgttcttgc gcggccaaca cctactacca 180
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accccgacca ctgcaggcac catgggagga ggaacctgaa gtacctccac aggcacacgc 360
acagccgtcg ctggcatgtc gacaggcact gacaccgaa ctgcgggtac aggtttcggc 420
ggtctatgac caggcacata cgctagcatg gacactgca 459

<210> 17792
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-031-Q1-K1-C8
<400> 17792

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agctacctat ggacagtccc gagatgccat cgagctatga ccatgatgat gtgccaccac 180
aactggcaca aacactctat aggataatag ggctgctcaa aaacgtactg tgcttgctaa 240
tgcttctggc aagaataaag aatctgggaa atcgtcagtt ttacttgatg tgaagccatt 300
ctacgatgac actgacatgg ccaagctcga ggaagctgtt aggagtgtcc agatggaacg 360

<210> 17795
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-D10

<400> 17795

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 tcggaggccg acatcacctg cgggcagctg agctccgcca tcgcgccttg cctctcctac 180
 gccacggaa cacgggtccgg cccctccggg tcctgctgta gcgacgtcac gaaccttaag 240
 agcgccgcca gcaccgccga cgacaggcgc gccagctgca actgactcaa gaacaccgcc 300
 aggcacgtca gcagcctcaa ccgccacaac gccgtcagca taccctcaa atgcagcagt 360
 agcataccct acaccatcag caccttcacc gactgctcca aggtgaacta aaacctagac 420
 cacgcgctac tacgggcggc tgat 444

<210> 17796
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-D11

<400> 17796

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 taatatgcgc cacgttccaa agaacttaat gatttatggt gcggatggaa ctgggcttgc 180
 ctctcttca aatcaaattg atgacctgga gcagtttggg gatgtgggct ctttgatga 240
 taatgttgaa tccttcttat ccaatgatga tggagatccc agggatattt ttgctgcact 300
 caaaagaagt cctgcagaac ctaaccagc cgcttcgaaa ggttttactt tcagtgaagt 360
 caactgttgg cgcacaagca acagcaaat tgtttgctga cacttcgttt cagatggcaa 420
 gatatt 425

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 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-D12

 <400> 17797

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 tggcactggg tcgttcaagg aggatagtaa cctgctgtcc gagctccccg accctgagcg 180
 cacagcgctc gcgcagctca aggagctcgt cgccaccgcg ctcgctaacg gtgagttcaa 240
 cctgccgtcg acgtcagcca aggaggagcg caagaaggag gatccggcaa aggaagaagc 300
 tccggcggac aatgaggacg agcccaaggc agaggatgcg gctgaccaag agcccgtaaa 360
 ggaggaggcc aagcctgagg agcccaaaac ggaagcgccg gcagaagcag cgctcgagga 420
 ggtaaatgac gagacacccg 440

<210> 17798
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-D2

 <400> 17798

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 aagacggcag tggcgggacg cccccggacg tcaggcggac tgcgctgctg ggcgggcaaa 180
 ctcgtcttcg tcgccgagta catctgggac atggactacg tgcccgtgtt cacgcatcta 240
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 gttagtgttt ttcgaaaggg atgcgtactt g 331

<210> 17799
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-D3

<400> 17799

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ctggttcaag ctcttggaag aaggagggtg gaaatgcaac tcaggcgccg tgatgttgaa 120
tagtggatga gccataggcg actgcctgaa gatttgagaa ggagggttag acgagccgaa 180
aggttcacct gggcagctac tcaaggagtg aatgaagagg agcttttgag taatttacct 240
gaagacatcc aaaggacat acgtcgccac ttctttagat tccttaataa ggtccgatta 300
ttcaccttga tggattggcc tatattggat gcaatatgtg acaaattaag acaaaacttg 360
tatattagtg gaagtgcacat tctttaccaa ggtggcactg ttgaaaagat ggtcttcata 420
gtgagaggga aactggaaag ca 442

<210> 17800

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-D4

<400> 17800

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atggctagct ccatcagctg ataagcagat atgtctgagg caactgaaga cctggcgtaa 120
gttgtgcacc gcgcaatata attcgacttc gtttgctcca ctaagaagat cacgaccgac 180
aactagtacg gtaatggggg tggcctgacc ataaactttt acatcaacag cctgaaaggt 240
catggacatt ggcttatacc atatcgacga caagtacggc gcgaacctcg acggatacag 300
gacactctac aacgatgatg actgatctca caccgtagac gtctacttcg gtagaaccac 360
tgaacttatg atctgggccc ttacaatcgc tgggataccta a 401

<210> 17801

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-C1

<400> 17801

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tgctctctt tcgtaacaac agagacagtt caaacaaaac tgtgattttg gtatttttatt 120
 ctttatatac atttattaat caaacttcat attaaattta ttttaattta tatttttttt 180
 ttatctatctt tttattttatt tatttttttat ttttttattt atttttttttt tatttattaa 240
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<210> 17802

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A3

<400> 17802

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 gagaatgaag ccttgaatga gctttatggt gaagaggagg actatgagag actccgtgaa 180
 tcaattgaca tgcattgaca ctttgaccag atcgggtctg cccagaagct tgagaagcat 240
 gaattgctgg agatgaggag gattgccggc tacatttaca agaaggctgg cagggtggaag 300
 caatcgatag ctctatcgca gaaagacaac atgtacaagg attgcatgga gacatgctga 360
 caatctggtg accgcgaatt gtcagaggac ttgcttgtct attgcattga gcatggtaag 420
 aacgaatgct tcgct 435

<210> 17803

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A4

<400> 17803

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 taaatgggtc ggaaagccgc tcctgtcaag aagggtgatg ccaaggccca ggccttgaag 120
 gtggccaagg ctgtgaagtc tggggcaggc aagaagaaga ccaagaagat tcgcacatct 180
 gcaacatttc accagcccaa gaccctgaag aaggccatgg acccgaagta cccaagaatc 240
 agcactactg caagaaacaa gcttgatcag taccaaattc tcaagtaccc cttcaccaca 300

gaatctgcaa tgaagaagat tgacgataac aacactatgg tctttattgt tgacctcata 360
gcagactaga aactgatcta gggctgcaga tcaagacgat gtatgacatt cacgcaaaga 420
agggtcaacac cctgatcaag cctgatggga agaataaggc tatgtgaaac 470

<210> 17804
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A5

<400> 17804

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catttgcatt tgtgcagggc ctgtcgtcgt ccgttccaag cgcagacacc atgacggagt 120
gcgttgcgat ccatgtacgc catgccgga tccaggtcta ttacacgtgc tgtgagctgt 180
actgcattga gcatggcatt gaggtgtcgt gtctgatgcc cgggcacaag acccttgttt 240
gacgtgatga tgctatgaac acctgcttca gtgagactgg tgctggcaag cacgtgccat 300
gcgctgcggtt attgacattg accccagtgt catcgattag gtgagaactg gct 353

<210> 17805
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A8

<400> 17805

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acgacctgtc gcaccgcga cgcagccgcc gtcgtccgtc tctgctgct gagctctttc 120
tgccgcgtcg ccgccattgc ctgcgaccct cctaattggc ccaagttcgg gtacaccggc 180
tccgtcggtc ccgaccactg gggcgactg agccccagct tcaggcagtg cgcgacaggg 240
acgaagcagt ccccgatcga catctacacg gtccaggcgg tctccaaccc ggcgctgcag 300
ccgctccaca gggactacac cgtggccaac gccaccctcg tcgacaacgt cgtcaacgtc 360
gcgctgcgct tcgacggcga cggcggcgcc gggagcgtga gcgtcagcag gaagctgtac 420
acgctgaage aggtgcactg gcacttcgct tgcgagcaca cc 462

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<210>	17807
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<212>	DNA
<213>	Zea mays

<400> 17807

<210>	17808
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<223> Clone ID: LIB3062-031-Q1-K1-B12

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gcaaggccaa gcctgctccg aagaagggtg ccaacacatc gacctctct gaccggccgc 180
tgtggttccc cggcgccgtg gcgcccgact acctggacgg ctcgctggtc ggcgactacg 240
ggttcgaccc gttcgggttc gggaagcccgtt tggagtacct gcagtctgag ttggactcgc 300
tggaccagaa cctggccaag aatgaggccg gcggcatcat cggcaccggg ttcgagtcct 360
ccgaagtcaa gtccaccccgt ttgcaaccct acag 394

<210> 17809

<211> 353

<212> DNA

<213> Zea mays

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accataggat ggctctactc aacgaaagcg atctcgacta aatgctggtg cgaccaatgc 120
attatccatt aacgatcaac tgcatgatct acgaccatc tattgagccc gcgtgacaaa 180
acaccgtatg ccgctggcac ctacgctgac tctgaatgct gagcaagcat atgaccctct 240
cgacgaggac tattgatctg tgactcgata tactaccaca tcatgcagag ctgacccaac 300
taatacaact gctcctgatg gactataatg tgtgcagcgt caccgtgctg acc 353

<210> 17810

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B3

<400> 17810

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cacgcggaac gggattactg catagggcca atgtgtgaac gttgaatcct caacaattcc 120

ttcatcccca actccaaatg ttgctgaaac acatacccca tctgctgatg acgaggacta 180
 tgatcatgct cacctttttg gttaggagac ctaacattac aagaatgctt cttaacatcg 240
 tgctgcagct tccaatgctt cttacaacaa taaacaatct tataagtcat cagttttact 300
 agatattaaa ccatgtgact attataactta catt 334

<210> 17811
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-031-Q1-K1-B4

<400> 17811

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 gcagcggcgc tgctgctgct ggcggcgggg gccgggacgg cgtcggcggc ggtgagctgc 180
 ggcgaggtga cgtcgtcggg ggcgccgtgc ctcggttacg cgatgggcag cgcggcgtcg 240
 ccctccgcgg cgtgctgcag cgggggtgcgc tcgctcaaca gccgcgcgtc gtccgcggcg 300
 gaccggcagg ccacctgcaa ctgcctcaag agcatgacng gccggcttcg cggcggcgtc 360
 agcat 365

<210> 17812
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B5

<400> 17812

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 agcaattcct tcagcccca ctccagatgt tgctgaagca caggccccag ctgctgacga 180
 ggacgacgat gatcatgttg accttttcta tgagtagacc gaagatgaga agaaggctgc 240
 tgaagagcgt gctgcagctg ccaaggcttc tggcaagaag aaagaatctg cgaagtcac 300

agttttacttt gatgtgaagc catggcacga tgagactgac atggccaagc ttgacga 357

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<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B6

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tgcaatgggg gcgtctcact cctcctgctg ccagccgcag ctggtcgcgg cggccgcagt 120
cctggcagcg gcgctgctgc tgctggcagc aaaggccgat acggcgtcag cggcggtgag 180
ctgcggcgag gtgacgtcgc ctgaggcgcc gtgcctcggg tacgcgatgg gcagcgcggc 240
gtcaccctac gcggcgtgct gc 262

<210> 17814
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B7

<400> 17814

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tttttttttg tggtatttat tatctatttg atggtttggt cttatgttct tttttttttg 180
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ttttgttttt tttttatttt ttttttattt ttatattttt tttatttttt ttttattttt 420
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<210> 17815
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B8

<400> 17815

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ggtggtgcta atgcacacctg aaccagtata actgtctaca tgtagctcaa actacagtat 180
tggaattgct aaagattgga gctcc 205

<210> 17816

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B9

<400> 17816

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gtcgtgcgcg gctggggacg actgcgagcg gctgagcatg gaggagctgg acggcagcga 180
ggagatgccg ggcaccccg cgctgccagt gtcggccagg gacggggaga caatcctcaa 240
ggcgatgggc ggcgatgtcg cgccacccaa gtggcagggc ggcgacggcg cgcccgtgta 300
ccggctcggc cccggcccgg ccgtgttgaa cctcacctac attggaaacg agacttttagc 360
aacaatcgaa aatgtgtttg cggatgataa aagaaaagag gagcctgaca gatattgtgat 420
cataggcaac catcgtgatg cttggacatt tg 452

<210> 17817

<211> 362

<212> DNA

<213> Zea mays

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gaagctgagg ggggtcaaaat cctactgtga aaacgcccta aaaatctacc aaaagcctat 120
tccagggact tctctggaag aaatcgccac tggtttaact gacgtatcag ccatatatga 180

gacgatgaat gagcagcagc aagcgctcaa gctacttcag aaggccttaa cactgtacaa 240
 caattctgcc ggtcagcaga gcacgattgc tggcattgag gctcagatgg gcgtgctgca 300
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 ct 362

<210> 17818
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 <212> DNA
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 <223> Clone ID: LIB3062-030-Q1-K1-G12
 <400> 17818

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 tctaataaag attcatttcc tcccagcttt actgtgcccc tcacaatgaa gtctacactt 180
 cgctatgggtg agaatcctca tcaaaaggct gccttttatg gtgacaggag tctttctcta 240
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 aacta 305

<210> 17819
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-G2
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 cgcgggtggt ggtcaaagtt ctctgggtta cctctttgga agcggtgagc cccccaacc 180
 agcagtggca ccagctgtaa gtgctccacc tgctgctgca ggtgctccac ctgctgagaa 240
 accacctgct gcaaagcctg atggcaccag tcagattgct gctgggggtta ccagccaaac 300
 caataactac cacagggccg acggtcagaa caccgaaac ttccttacgg accgttcttc 360
 gacca 365

<210> 17820
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-G5

 <400> 17820

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 ggaaattaga gggggaaatg aaatgaccgt gttgaaaaca gggccaaagt agctagcaat 120
 tcaaagaggc aaaatgctgc aaaatataat gttcatgag gtcagtaaata acatatttgg 180
 taattccatg ctaatacact gatgctttaa gatgcctgag acatctatct tctttgttag 240
 ttgttttcgg tgttgtcaaa atctcacgtg ccacaatgga tgaaagaaca acatgtataa 300
 ttgggttcca aagagacttg agggctaatt catcacaacc tgtaactgaa gatcttgtat 360
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<210> 17821
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-G6

 <400> 17821

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 gacaactgct ccacaacgtc tcgcctggga tccaggaagt ggtcgctctg cttcgactac 180
 atcctgactc atcatgcctt tgtggcggtt gacaaggact cccgatcaa ccaggacctc 240
 atcagcaact tcttgtctga ccctgtccat ggtgccattg aagtctgctc ctagctgagg 300
 cccaccgtct acatctctgt gcc 323

<210> 17822
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-030-Q1-K1-G7

<400> 17822

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atccagccat ggcgttcaag cggaggaatg gcggacgcaa caagcacggg cgcggccacg 120
tcaagtacat ccgctgctcc aactgcgcca agtgctgtcc caaggataag gctatcaagc 180
ggttcttggt gaggaacatt gttgagcagg ctgccgtgag agatgtgcag gaggcctgtg 240
tacatgatgg atatgttcta cccaaattgt atgcaaaggt tcatcactgt gtctcatgcg 300
caatccatgc gcacattgtc cgtgtccgct ctctgagaaa caggaggaac cgtgagcccc 360
cgcagcgctt cagacgcggg gatgatggcc caaggcctgg tcaggggccc cngngcccag 420
gcggtgc 427

<210> 17823

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-G9

<400> 17823

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acgcttcaact caaccttaat atgttataat ctctaagctc taactatcca caccactcct 120
tcatctatcc attacccttc tcatccacac aaactaccac ctctacttcc caaaccccca 180
c 181

<210> 17824

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-H1

<400> 17824

ccgtctgatc cagcaaaacc ttttcaagca aggtacgcta taaatcctca gcaatgccag 60
gtaggtcata cacgcatgag cttcagacca gacgaataac ggtacgcacc actcacgtac 120
acaaatcact tgaagtacat tcgttgctct aacttctaac agcgctgaac gactgttaaa 180
gctatctagc aactatcagt gatccaacat gtgaaaagcc acacttactg tatagaccac 240

acacattgcc tgtctacatg agggatagtc attacccatg atacatccaa taccacatca 300

<210> 17825

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-H11

<400> 17825

gccttttcat tatctttccc attgtgactg tgatggtgta atatgcagca tgtgactggg 60

ttgtctggga gggaagactg ggcttcggat cactggtacc atcctacaac ctgggttcat 120

acttgaccta gatgtcaaaa gtatttagtt ttaactattg tgtgctaaac tatgtacgtg 180

gcatgaaagt taaggctgat cgtgatgagt cgtatcctta tgctgctatg cttgctgctc 240

aagatgttgc acagcgttgc aaggatattg tagtgaagcc tgcaatttcg tctgtgtatc 300

caaagatgat gtttgcttaa ttaaattgaa gcttacgatt atgtaaggct gcttacgttg 360

ctgtgggcag ataagtgact tgggtctgtg t 391

<210> 17826

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-H12

<400> 17826

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tgaattgagg gatgctgtct tgctcgtttt cgcaaacaag caagatctac caaatgcaat 120

gaacgctgct gagatcacccg ataagcttgg tctccattcc ctgcgccaac gccactggta 180

tatccagagc acttggtgcta ccacaggaga aggt 214

<210> 17827

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-H2

<400> 17827

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 tgcagctggt gttgggtctc tgtttttcgg actactatct gtcgagttca ggtgaaattg 120
 cctttctttt ttgaaccaga ttaaataagg atgttggaat aatcctatct ttttcctctt 180
 gggaacgcaa ccagcacacg ttcacagga gtgtttctgt ttggcctggc tatctgtttc 240
 ggtttgata catacagata gcttaccttc ttgggtcatc aggagtgcaa agttgcagga 300
 tctcaagcgg cgtgacgat gacgcatcat ccctggagcc tttcacggtc gagcaaggac 360
 tagtaagaag gagggccaca tgcgtcgtgg ccccgtagaca actgcttcac gttctctcag 420
 g 421

<210> 17828
 <211> 240
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-H3
 <400> 17828

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 acacacaact aactcactac taggcagcgt ctattgatgg gacgtcagtc ctcacactac 120
 tatcttccga tccaacgact tataaaattc atatctgcaa ctaaaacaaa cttctacgta 180
 acatcaaacc tattagatca ctatcagaaa ccaaactat acacattcat aaccactatc 240

<210> 17829
 <211> 151
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-H4
 <400> 17829

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 cttccttcgt cgggggggaa aattgggaag actccggtgc ggattaaggc cgttgtgtac 120
 tccctgtttg cctttcatca taaggatgatt c 151

<210> 17830
 <211> 335

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-H5

 <400> 17830

 cattcaccgg ggggggtgca acgaccataa tccaaatggc ccgcaagcgc aacttggata 60
 agaacaatga ggccaatggg agccagctct agaccaacat gaaggccatg atcatccaga 120
 gagcacgccg aggccaagca tcccaagaca gacgtgtacc agtgcttccc ccatctgaag 180
 aagtgaaagg cctgaactta gcaaccaatg ctgatttgac cagcgggcgt tccttgtgtt 240
 gaggggtgttc attccgtgtt atcttcccgt cagtcatgcg tcctgtccta tgttaaccta 300
 cataataaag tgatgtcatg tccacttcta gtgaa 335

<210> 17831
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-H7

 <400> 17831

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 atccccaggt gggagatcgt gccaccaag caggacgtca tcgactccgc cttcaaggac 120
 cccgtcaagc gtgaaaagat caggaggaac cagctgatct accaggacaa gccgcggctc 180
 aagactgcgt tggagatgct caggaccagc atgtacatag aagacagctt gtcacagggtg 240
 acgctgccgt tcttcgtcct gcacggcgag gccgacacgg tgactgaccc ggaggtgagc 300
 cgcgcgctgt actagcgttc ggccagcgcc tacaagacca tcaagctgta cccgttgatg 360
 tggcacggcc tcacagccgt tgagcccgac gagaacgtgg aggccatctt ctccgacatc 420
 gtgtcctggc 430

<210> 17832
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-H8

 <400> 17832

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 gaatctcggg cggtgacgaa aggagatggg gaagtaggga tggtaaaaat tgacaaggac 120
 agaaatgctg gtgtcagcag tgctttcggc ttagaagatg aggctgagga ggacaagcgg 180
 gaatagccat ttcttgttcc tgatgtcccc taggtcccag aaacaatcga tatttttgag 240
 cagcaatatt gcaagaatac ttctttttca agttacatgt cggttgctgt aaaagtgtg 300
 ggaattgtaa acatgcgaac tctattaaaa gaaaaaggat aaggaattct aatcc 355

<210> 17833
 <211> 332
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-H9
 <400> 17833

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 agcttatgtg cagtatgcag gtccaacctg tgattgacct attttttctg ttgtttcttt 120
 gcccgatgat ttactgctct ggaacttaag tgtgatactg ttgtagttac actttactgc 180
 cctgactatc atgtcaaacg gctggatata tttgaaactg tccttgatga atctggacgt 240
 gtattttgtg tgtgtgtata tgggttttgc ttcttcaatg tttgtccatg gaatatagat 300
 atataaaaag ctgttgcata aataattaaa aa 332

<210> 17834
 <211> 347
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-031-Q1-K1-A1
 <400> 17834

gctttagggtg ttcacgagaa atataatttg ccatcaggaa aaccaaagt aacaggaagt 60
 tcggtgttca ggctggggat taaaacgagg aacatgaaga tattgcttcg tagcccgaa 120
 aggaacttgg gggatttata gcaatattag tgtgacattt tccacaagac tgagaagaat 180
 gtggtaaaac agtgcagaaa ggaagatgcc aactgtgacc acacacagac agttgaacaa 240
 caacagccct ttgacgacag acagacagtt gagcatgctt ctcttcagaa aactgatcta 300

tgcaaagaga cccatgtttc aaaagcttaa acgcttaccg caaatc

347

<210> 17835
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A11

<400> 17835

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aatcaaaggg tccaaatggc acaggtgctg ctgcttactg tggttttgca accaaaatac 120
tccaaaacaa tctgttgat caaccaggac ctaaaagtaa cttggtttcc aatgcataac 180
ttaaagggtc ccatttttcc acccatatta aatt 214

<210> 17836
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A12

<400> 17836

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gcttattata taggtgagag cttggaaact atgcagagta tagtggtgct cctaatacagg 120
aggaggttct gaattattct agagttgttc ttgattgtgc aactgctgat cctgatggcc 180
gcaagagagc ctttctcatt ggaggtggca tagctaactt cactgatgtt gctaccacat 240
tcaatggcat catccgagcc ttaagggaga aggaatccaa gttgaaggct tcaagaatgc 300
acatttatgt ccgceagagg ggtccaaatt accaatctgg actggctaaa atgcgtaagc 360
ttggtgcaga actcggcggt ccaattgagg tgta 394

<210> 17837
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-G11

<400> 17837

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gctatctcct gcgttacaac cctctccgat gttgaggggc tatgtgtttc ttttgctggg 120
agagaagggt catctgatcc tgcagtagct gtgaagaaac ttctgcatga ggacccatat 180
acagctggag aaatagagaa aattacagga gaaggcctga catctgtctt ccagggtctt 240
cagacgtcat tggaagttat aaaagcggca aagcactaca agctatttca gcgtgcgacc 300
catgtctact ctgaagcaag gagagtttat gctttcaggg atactgtctc ttcaaaactc 360
aatgaggaag gcaagcttaa gaaacttggt gatct 395

<210> 17838
<211> 153
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-E10
<400> 17838

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cattgacgta cggctatgat gcggccgacg tcgacccttg ctatggtcgt gccgtcgctc 120
gctgtagcca tcctctgcat cctagtccgg tcc 153

<210> 17839
<211> 204
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-E11
<400> 17839

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aaaagtcctt aaccgcgcga acatgggtta atgtctaacc tggatagatt acctcattac 120
tacaatatcc atcaagatga aatccacacc aaacttttcc aattatttta aaaaagggtc 180
cttccaattc ttaaaaattt accc 204

<210> 17840
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-E2

<400> 17840

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gcctattgaa gaagtgcgtc agccacggtt tgatgatgaa aggcgccctg cagtttagaca 120
tgttctcttt gaggatccat atagggcaca agcaccacgc tttgcaccag ttcctggtga 180
gtctcagctt ggccattcgt tggctagtgc tcagggtgat cacggcagat attatcaacc 240
accagcactt gcgcctgagc ctcgacacat tcctcttggt ctagagcctc gctatgttcc 300
gccagcccat gtgcctactg tgccagagct tcaacatgac ccagctgcat attatcgcac 360
ttcggtcca tctggcgact catactatcg gcctgttgat aatctggtg 409

<210> 17841

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-030-Q1-K1-E3

<400> 17841

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gggagctgct ggacgggacc cgagcacgcg catcacctgc gctcgccctc tcgagacgcc 120
gtggtaccgg aagccgttgc ccgtcctgcc gccgtcaac ctcaaggagc caacccccga 180
cgcgcgccgc gccacctctg acaaggaaga gcccgaggtg ctgaacgcgt tccacctcat 240
ctctttctcg gagggcttcg acctgtcccc gctcttcgac cagggccgtg gcggcgccgt 300
acggaggtct agcgcggtcg gcatccgttt cgtgacgcgc gagggccgnc gcagcgtggt 360
ctcccgtctg gagtcgc 377

<210> 17842

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-E4

<400> 17842

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 aacatcaacg cgaacggcgg catcctgtcg tacgtgaaca tggaggggta cgcccgttgg 180
 gtggccactg gcgtggcgtc ggccttcttc gcgtccctgg agcgcttcta ctgcatccac 240
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 ctcatcttct tccgccccga cgccctaccc gagtactact acagccgttc cacattctgc 360
 gtcttcttcg ccaagatgtg acatgcatga tctgatc 397

<210> 17843
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-E6
 <400> 17843

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 atgatgctcc gtcgcctctg caacaaccaa agaggagcac catcgtcctt gtccagagcg 120
 ccacgcctg cagtgcctc gccgcctatg agcgcttctt ggaccgcccc ttccttctc 180
 gagaataatg atcagttcgt ggagcccaaa ggagctacct atgaagacc tgagcactca 240
 tttgttgaag gttggcatct atgcaaccat tgattaggag aaagagtcga agcggatctc 300
 caggagtcc atgacttcga cgaattcgaa gactaggcta gtggcctcct agtcagatgc 360
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 tc 422

<210> 17844
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-E7
 <400> 17844

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atcaccatct tccctatcca catcgccatc tcctgcattt acctctcctt ctatcacctc 180
 ttcttataca cccaacttcc ttactctata ataaccatca cttactataa ccaacccgat 240
 ctacctatca ataccctgat cactcatttc ttgaaagtct gtcacttatt caaccatcta 300
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 t 361

<210> 17845
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-E8

<400> 17845

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 atgagcat 68

<210> 17846
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-E9

<400> 17846

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 aacttaaaaa agttggcgat cctattgagc tgcgcttcaa cgaatgcgag attagaagtt 180
 ctgctattag ccaactggta tactgcatca atagcttcag agaagctgca cagtctaccg 240
 accacaagtt tgaacacata gacatgtcag aaaagcgaaa ggtcattaat gagtgttcgg 300
 aaacagacac ttggctaata gacaaaaagc agcatcacga tgctctgtca aagca 355

<210> 17847
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F1

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<400> 17847

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cagatactag aagtatgtgc caccacaaaa cacgatgatc cacaaggagc caaccacggt 180
actctcacga accaacatct aacatcaaag agccactaat gacttaaadc gtaaaccctca 240
tgtgaacctc caaattcttt gaaatttccc aactatttga gctaatacctt gtcaacagaa 300
tcagattctc tacactaaac ttgatccgtt aaatgactca tcaaaatctt cacaacagaa 360
tccaaacgat tatgggtcc 378

<210> 17848

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F2

<400> 17848

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ggagagggttg ggtgcgacag tggctccttga gggggactca tatgatgaag ctgagtcata 120
tgcaaaattg cgttgccagc aggaaggccg cacatttga cctacttttg accatcctga 180
tgtcatcact ggacatggaa ctatcggcat ggaaattgtt cggcagctgc aaggtccact 240
gcatgcaata tttgtacctg ttgaagggtgc tggattaatt gctggaattg ctgcctatgt 300
aaaacggttt cgcccagagg tgaaattaat tgaagtggaa ccctaagatg caaatgcaat 360
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<210> 17849

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F5

<400> 17849

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taccggatgg ttctctcgga gacggacgta cagtgatatt gacatctgct tggagaagtg 120

ccgaagtgat actatcgggt gatgtgttaa gtggcaaagt ggcaagaata actccggaag 180
gctcgtgcta ttcgtggcgt gctcttgctg tagatggcac caatgttctt gctgtgtcaa 240
gtagtcccat ctaccctcct ttcattcatct actgacgacg tcttgccgtg acaccatctg 300
agggtgaagc acgtatatag acctgggatg aagttactag tccattcatg gcattcaaca 360
tcaagggttaa gtccttggtg cttcatcaca gccttagcat acttaaa 407

<210> 17850

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F6

<400> 17850

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ttcaactatc ctcaaacctt ctctactact tctaactcct agtacctgga cttcttcttc 180
aacattcagc tgcaactagg tgacatcttc cttttctcct ttctctaaatt actctatttt 240
catctcttct tctcctcca catcttacta catcaagtta cgctctctca acatcctctc 300
atattcatct gcataccatc attccacctg caactgcctc aaaatca 347

<210> 17851

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F7

<400> 17851

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cttatctctg caaccatgag tgggtgttacg tgctgccttc gcttccctgg tcagctgaat 180
tctgacctcc ggaagcttgc agtgaacctg atccccttcc cacgtctgca cttcttcatg 240
gttggaattg ctccactgac ctgcgggggc tcccagcagt accgcgctct caccgtgcca 300
gagctgaccc agcagatgtg ggactccaag aacatgatgt gtgctgctga ccctcgtcat 360

ggccggtacc tcacggcatc tgctatgttc cgt

393

<210> 17852

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F8

<400> 17852

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atccgtatcc cacgtcaggc tgccggagtt cttcatcttc cctgcctaca agctccctca 120

gtccaaggcc acctcatcta ctgtctccct gccatcttc tacctcttcc tcggccgcta 180

ctaggttctt ctctccatcc tcgattccgt caaggagatc ggcttcttcc atttggtgaa 240

ccacagcgtc tccctttatg ctattcatga catgtacact gtattccacc aattctt 297

<210> 17853

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F9

<400> 17853

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gccgcggcgg agggcgaggc cgtgctcacc ctcgacgtcg acagcttcga cgaggccgtc 180

gccaagcacc ccttcattgt cgtcgagttc tacgccccct ggtgtgggca ctgcaagaaa 240

cttgctccag agtatgagaa tgcggccaag gcacttagca agcatgaccc accgattggt 300

ctcgctaagg ttgatgctaa cgaggagaag aacaggccgc ttgctaccaa gtacgagatc 360

caagggttcc caaccatcaa gatct 385

<210> 17854

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-030-Q1-K1-G1

<400> 17854

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agaagaaaaa agaggacgga cgattcgacg ctgcagcctg cacaggcgga ggcgaggagg 120
aagagagagc cccacgacg ggctcgccgg gacggccgac gggccgaggg tgaggtatag 180
tgcgggcgcg tgggtcccgcg cgtggagtcg ggatccgtat tgctctctag cagtcggccg 240
gtggcgggcg tcggcggtccg gaggggtgact gacagagaga gaatcgtcca tccatgggag 300
gatccggggcg cagcgcgcat ttcttgagcg cgtgcttntc ctgccggaag ccgctcgccg 360
gcaaccgcga catcttcatg tacagggg 388

<210> 17855

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-G10

<400> 17855

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tattctgaac gacagcaaca cctacggcaa catcaacata ctgcctacac ttcaaagaat 120
cgtcaatcac aacataccac tt 142

<210> 17856

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-E1

<400> 17856

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aggcaagatc tggccggtgc catgaatgct gctgagatta ctgacaagct tggattacac 120
tccctgcgcc agcgacactg gtacatccag agcacttgct ccacaactgg cgaggggtctg 180
tatgagggcc tggactgggt gtccagcaac attgcgagca aggcttgagg cctaccttga 240
atatcaactg cgaactgact aggagctccg gatgtatcat ggaaactcag gacagaatcg 300
cagttgcaat ctgttagatg tcttctaccg gcactatata tttttttttg tttgatgtgt 360

aatgatgtta ctgttcaacg cttattaccc tactat

396

<210> 17857
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-030-Q1-K1-B7

<400> 17857

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ctatgcacca aatgattgtc cttcagaagc agtatgaata cattggcctt tgcctttcgt 120
tgaagtcttt gttttcagct atgaagacta attgccccaa tataaaattc tttcagacat 180
ttcagttttt tctttaacat atttgagttg ttctgagaag ggtgggcctg cagtgggtgaa 240
tcagcctctc cgtattttgtg gagaaaaggc ttgtctcggg ttatcccttt ccttgaccca 300
cttatatggg agcctttggc actgaatctg cccttttttt gtatttgggt ggtttagcat 360
ttccttggtta cacgttaact ntattttcta tcttgcaagt tgaaacataa aagtcaaatt 420
acttt 425

<210> 17858
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-B8

<400> 17858

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tcttacgaca ggggtcgact tcatcaagaa gagcacggag acctcatgct ccgtcaccac 120
caccaccacc caggctccac cggcattcca gaaggcatcc tcttcttagc ccgtcaagga 180
ctagctgtga gcatccaagg tgtggacggc tgtggctgct taagcatggg agggaaacct 240
ggcgctaact tgcctccaac gcctagtttt tgcg 274

<210> 17859
<211> 334
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-B9

<400> 17859

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attggagata tagatcgtag tggatcatgta tattggagat atagatggta gtgatacacg 180

tcgcaaccta tgtgtgacct ctttctaact gtacaattcc agtgtaaacac caaggggtcca 240

accttaattt ccccatTTaa cctttgtcct actaactgcc ctgccattgc cggatatctc 300

ctgttgctaa ggctcaatct ctgaaaatcc tact 334

<210> 17860

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C1

<400> 17860

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ctatgcacca aaggatgggc cttcacactc agtattaata catcgtcctt tgcctttcgt 120

tgaactcttt ctctcagct atgaacacta attgccc aaa tataaacttc tttcacacat 180

ttcacacttc tctttaacat attcctacat gttctac 217

<210> 17861

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C12

<400> 17861

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tatcgggtca ccaacttcag atgttttccc tctatggaca cggcgaaaat gttacaaccc 120

tctccctacc caacttaatc tcattacaac tcatcccact ttcacccgat ggcctaatac 180

ctaataatcc ctacccgata ccacttccca acagacactc accctgactg cctcactcga 240

cacaccctgc atccactcat taagctctcc agctttcttg cttactctca tcttcacctc 300
 tacactttcc atctccctat caccgctcc tttcactctc ttcccttact ttctttccac 360
 attcaccaac tttccc 376

<210> 17862
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C2

<400> 17862

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 tgggaaagcc tgcaggagac atggatgggt taccgagaga gctgtgcctc aagatcttcc 180
 acctcctgga tcaccagtcc ctgcctctt ctcccaagg aaatggaggg cgttgacctc 240
 ggatgatgaa ctgtggccca agctgttcaa cgacaggtgg ggagcggacg ccgcagcgtt 300
 ctacgcgccg gagggatcca agtcttgaa 330

<210> 17863
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C4

<400> 17863

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 gggattgaga tcgggttcgg ggtcggctgc ttctgcgggg tacctttaca attcacatga 120
 atgcctctta acacgttcgg ctaggttata tgctgcaact gcaaagtcaa gtctctcact 180
 atctattgcc tcaatgaaat gctctaggtt ccaagtctca atcttcaaga tcaattattcc 240
 acagctttgc acttcataa tac 263

<210> 17864
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C6

<400> 17864

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agtccaccga ctgaaagttt ctgtggggga gctttacaat ggcacctcaa agaagctctc 120
tctttcgcgc aatgtcatct gctccaagtg caagggcaag ggctcgaagt ctggtgcctc 180
aatgaggtgc cctggttgcc agggctcagg catgaaagtc actattcgtc agctgggccc 240
ttccatgata cagcagatgc agcagccttg caatgagtgc aaggggactg gagagagcat 300
caatgagaag gaccgctgcc caaggtgcaa gggtgagaag gtcattcaag agaagaaggt 360
tcttgaggtt catgttgaga aggggatgca tcacaaccag aagatca 407

<210> 17865

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C7

<400> 17865

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ttctcctcca ttcaaccgat aggtccttaa tcaatgttgg ctgtacattt ttacccaaaa 120
taatctccct attactaaaa aatattctac ttataaacia taagcttagt ctataactca 180
tttatcatat aatactaacc attttcacia taatatttat aatctccatc ataacctttc 240
actctacact catattaaac atcaatttca caatcctaaa ttttatacct acatttctac 300
ccatactatc cattatttcc caacttattg ctacatcctt catgttaaata atctccattt 360
ctacatgaat aatcttcata ataaaaattt caatgatctt tcatactaca acattctttt 420
aac 423

<210> 17866

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C8

<400> 17866

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gttcgctata ttttaatttgc ttgctgactt aattcccata atccccgtgt acatatctat 120
cacctgtga atattctcag tttgtaatag ggacgatt 158

<210> 17867
<211> 179
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-C9
<400> 17867

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agcaagattg tcgttaaggg tcaagaagag cttgacattg atgtgcttgt gcatggcgag 120
cctgatagaa acgatatggt tgagtacttc cgtgagcagc tctccggttt tgcgttcac 179

<210> 17868
<211> 371
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-D1
<400> 17868

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ttcaacgccg gggcggtgga ggacctgata gttcggcggg ggcgcgtctg ctgcgtgggc 120
accaactggg cgctcgtgtc catgaaccac gacacgcagt cgtgcatgga ccccaacgtg 180
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gtcaagaggc tccaggacat cggcatgata agcgccgtgc ccggtatgaa ggcgctcgac 300
atgaacgccg tctatgacga gatcgtgcgc ctacgcgcg aggtcgtgcc cggcatagac 360
gtcacctgga t 371

<210> 17869
<211> 221
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-D10

<400> 17869

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atacttggct gttgtagatt gattcatgta ggctgtgcat gctcgtttagc ctaaatacagc 120
tgtgcagttt gaatacttcc aaattaaatg gtcctctgag actcttcaga ggtatcggat 180
cctatttttc atgttcactg atgacttaca ggttacatct t 221

<210> 17870

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-D12

<400> 17870

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atacttgaca cgcattggtga agttttcatt tggattggct agtatgtgga atcaaaagag 120
aaacagaagg catttgacat tggccagaaa tacgtggagc atgcaaattc tattgaagat 180
ctttctccac atgtaccact atataaagtc atggaaggga atgagccatg cttcttcaag 240
acgtactttt cttgggataa cacaaaatct ttggttcatt gaaattcctt ccagaagaaa 300
ctctcgc 307

<210> 17871

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-D2

<400> 17871

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ggcataaatc gtcgggacta gttactactt tatcgatcgg atttgtctca tactgggagc 120
tatcactaat tatgctatct tgaatacgaa tcattacact caatcgatcg atgcagatga 180
agtctattaa gccattcagt tcatt 204

<210> 17872

<211> 279

<212> DNA

<213> Zea. mays
 <223> Clone ID: LIB3062-030-Q1-K1-D4
 <400> 17872

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 ctggagccat cggtgggcct acgctattgc cacacaactc tcagatgagg aagatggact 120
 caactataac tcctgcatg ctacacaata aaggagggtt cctgtctgca acagtccaaa 180
 ttaacgagag tacgttggtta cccacaggca agccttggtg tcagtcagac atgagccatc 240
 caacatctaa tgaagtgagc acttcagctc aagctacta 279

<210> 17873
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-D5
 <400> 17873

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 gcgactgagg gacaagaggg tgaggctata gctgaggaaa caaagaagag taaccatgtg 180
 cagaggaaga ttgagaagcg ccagcaggac cgtgcactcg acactcatat tgaagagcaa 240
 tttggcagtg ggagattggt ggctgcatt tctgcccgtc ctgggcagtg tggccgagct 300
 ggtggctaca tccttgaggg taaagagctc gagttctaca tgaagaagct ccagaggaag 360
 aagggaagg gtgttgcatc ttagagcatt ctttt 395

<210> 17874
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-030-Q1-K1-D6
 <400> 17874

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 gcaataatgg cgcggcgctc ctctcctcc cagccgcagc tggtcgcggc ggccggcgctc 120

ctggcagcgg cgctgctgct gctggcgccg ggggccggga cggcgtcggc ggcggtgagc 180
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<210> 17875
 <211> 222
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-030-Q1-K1-B6
 <400> 17875

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 ggcggcctct cctggggccac tgactaccac tccctccaca actccttcat cacctactgc 180
 taggtcctcg agtccaagat catcctcgat cgggagactc at 222

<210> 17876
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-D7
 <400> 17876

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 ctgcgaggca acctgatcca atgtctctga ggtggcttac gccgtgggca aggacacgag 180
 aattggcccc aagttcctga acgccagtgt tggcttcgggt ggctcatgct tccagaagga 240
 catcctgaac ctgggtgtaca tctgcgagtg caacggcctg cccgaggtgg ccaactactg 300
 gaagcacgtg atcaagatca acgactacca taagagccgg ttcgtgaacc gcgtcgtggc 360
 ctccatgttc a 371

<210> 17877
 <211> 315
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-030-Q1-K1-D8

<400> 17877

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cgtattatga gccatcccat catcgtcagc ttgcgggtcc tacatatcaa atctctcatc 120
catatctntc tattctatca taatgacctc ctgattgagg gtcgcattat cggattctat 180
gagtacatga acttggctct cgaagactct gatgaaatca acgtcaagaa aaacactatg 240
aaatcactgg gccggatact cctcaaaagt gacaatataa ctttgatgac taacaatatc 300
aagtgaaaat tctta 315

<210> 17878

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H7

<400> 17878

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acagggatca ttaactgtca cattctagtt caaggccat agatgactcc cagtctctgc 120
aaaacaagca gaacgtcaac tgatctcgcg tcgttgctgg cacaagtga ccttcttgca 180
ttgcctgcat tccaaagtct gatccgaact cttccacaga tgctaagggt gtatcgaccc 240
atactgacat tattcatgca acggacctga tggaagctac cgttccgac ttggatgact 300
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<210> 17879

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H8

<400> 17879

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ctccaaggct cttggtgtag cttgccactc tcaccaatca agttttcatg tctgatctcg 180
acattcagat cccaactgcc ttcgatccct tcgctgaggg caatgctggg gactctgggtg 240
cggcagcagg gtcaaaggac tacgtacacg tgcgcattca gcagcgtaat ggtcgcaaga 300
gcctgaccac cgttcaagga ttgaagaaag cgttcaacta cagcaagatc ctcaaagatc 360
tcaagaaaga gttctgctgc aatggtacaa tggccaaga cccagaactt ggaca 415

<210> 17880

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H9

<400> 17880

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ctattgcact cgcactatac aatcaattat acattcatct caatcagata ccaactgcct 180
ttatccactc ttgagccaat ctaagactct cattagcagc atgtcataga ctacgacact 240
tcacatcaca acta 254

<210> 17881

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-A1

<400> 17881

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agtgtcaggg gtagcgtcaa ggagagccaa ccaccaagt ggacagaccg atgtaatcgt 180
cttctgtagc ggcgggttcg agaatccagg cactgcgaaa tcagaaggag agctgctttc 240
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gaagactaac ggcacgaaaa ct 382

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<213> Zea mays

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gaagtattac aggttgagaa aagagatgga tgaaaacata tcccatcgtg atccgcttcg 120

tcaacgttca catgctgcagg ctgcttacga caaggccaat acgaatgaac aatcgtcaag 180

tcgctcatca ggaggtgcat cttccataag ctttcctgga cggatgcctc ctggcggttt 240

tcctagaagg attcccagtt gaggtttccc ctgggggtgc atgccttgag gtttccttgg 300

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<210> 17885

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-A2

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gggtgatcta ggcaggtggg agatgctgcg ttcactctcc ctctgggttcc ctgcctgtga 120

ggtactctcc ccactcatct ctgctgggct tgatagctgc cctgttctag aggagatctc 180

aattaaagtg gaggggtgatt gcttgacatg tgcacgcctt ggccattat tcggcctgag 240

tgatcttgca agtttcccag cgcttgccaa gatgaattcg cgatctgagt gaagccagta 300

gcctatcctc taactggaca agcctgccaa atggaccttt ttttggggaa ccaatttaat 360

ttccaggtat tggatcaact a 381

<210> 17886

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-A3

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aggtctctct ccacttaggg ggagattgtc taactatgct gactcaagtc ctgaattggt 120
 accagagttc ttgcaagttg aagcttttgc taagttcagt aatgctattg gaaaggtgat 180
 agaagcccaa cctgacatgc cagttgttgg agccgtaact ctatatctat cgctattgac 240
 ttttactcta cgtgtacata ctgaccggct tgattatgat gaccaagtgc tctgtgcatg 300
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-A4

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 ttaaccatta ccaaattct ttcaaattaa agctccaact aacttaaata ttcctatcct 180
 aaaacctttt taattacacc atttcatcca aaaactttta atccgaacct ctatatcaac 240
 ccttccaac taaaactatt cccaacaaa ctttcca 277

<210> 17888
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-A6

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 aacttaata aactataag ccagtttctc tagaaagagt gcttccactt taatttcacc 120
 atcatccctt ctaactacaa ctttccctat ctctcatcat atttataatt tcttatatta 180
 catttttttt tcacatccat ctaataaaaa ataattttta ctttattcat ctttacaata 240
 accactataa tacatcacia tctctttcac tatataatta ttaacaatat tatatatcac 300
 taatcacatc cacattatat taatctattc cttttacatt ttcctataac tcta 354

<210> 17889

<211> 230
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-030-Q1-K1-A7

 <400> 17889

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 tacagttcac tctaactagg tctgccatca actcctaaac tattaccaac aaatctttca 120
 aacanaatct ttaactaact tcantaatac tcttccaaaa ctcatataat cccaacctaa 180
 cataccattt attaaatcct taactactat attaattctt tcttactttt 230

<210> 17890
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-A8

 <400> 17890

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 aatcggtctt ggcagaagaa attctctggc ccaaggtggg aggcgttggc caagaaaggt 120
 gccaaagaaac aaaggttggt gtgggcatcc accggtgtca agaaccagc ttatcctgac 180
 actctttatg tggacagtct catcggacct gacacggtca acacgatgcc cgaccaagct 240
 ttgcaagcat tcatagacca cggcaccgtt tcaaggacag ttgatgcgaa tgtgtctgaa 300
 gcggaagggt tatacagcgc cttggagaag cttggcatcg actgggaaga ggttggaaag 360
 cagcttgagc tggaaggcgt ggactccttc aagaagagct ttgacagcct actcgtg 417

<210> 17891
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-030-Q1-K1-B1

 <400> 17891

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tgggtcaagta ctgggagtgt ccatggccaa accattggca gataagaaac ctgatcattc 120
 acacaggcct ggaggaggcc ctaattatcc ccttcctccc tatgggtgggtg gtggctacat 180
 gggagatcca tatgggtgctt atgggtggcgg cggtcctgca tacaaccagc caatgatata 240
 tggcagagga ccagcaccgg caggaatgag gatgggtgccg atgggtgcttc ctgatggccg 300
 ccttggctat gttctgcaac aacctgggtg aatgccgnct tcgtccncac cgcggaaggg 360
 tagtgaccga agagacagtg gcagangtgg cgaagggcac 400

<210> 17892
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-B10

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 tttcttacag atgcttgtgc ttatcggtgc ctacatatac catttgctgc catcattatc 120
 cgtaagccat ggatcgagac tgattttctg ttagtttctt ctccatgtcc accatctact 180
 tgatttgctg ctattctctt cttgacattg tcccacgact caagccctat cttgtgcttc 240
 agccttctat cacttgaggc ctattctgct tctacatgtc cttcttacac cctgcaacac 300
 taccgtt 307

<210> 17893
 <211> 158
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-B11

<400> 17893
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 acctcattct ccttcaacac cactaccacc cattctcc 158

<210> 17894
 <211> 221
 <212> DNA

<213> Zea mays
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 ttcatattca acagctcatc accattgcaa gttctcctaa actgggtccac tctctcaaaa 120
 catttacttc cgatcttaac aaatccttcc tttccactat ctaccactca ctcaccactc 180
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<210> 17895
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-B3
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 ttatacaaca ctacttgtct cacagtaatg cttctgcaat ctactaaggt ccactatact 180
 ctgaagggat gagctgatga tgtgtttcct cttcccagac aattgggtcc tttcagaaga 240
 agtacaacat tggatcattt gagctgctga gcaaaactgc gccaatcag gcactttcac 300
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 ctttttcagg aggggcaact ttcttcatac t 391

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 <211> 304
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-B5
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 tcaccacgcy cggtgggtcaa gtccttgaag ttgatggaga aaaagctgtt gtacaggttt 120
 ttgaagggaac ttctggaata gacaacaaat acacaacctt tcagtttaca ggctaggttt 180

tgaaaactcc tgtctcactc gatatgcttg ggctcatttt taatggttct ggaaaaccta 240
 ttgacaatgg gcccccgata ttacctgaag cctacttgga tatctctgga aattctatta 300
 atcc 304

<210> 17897
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H6

<400> 17897

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 tcccagtcct tgcaaaacaa gcacaaggtc gactgagcta gcgtcgggtgc tggcacaagt 180
 gcaccttctt gcagtgcctg cggtccaaag tctgatccga actcttacac agatgctaag 240
 gttgtagcga cccagactgc cagtattcgt gcaacggacc tgatggaagc taccgtttcg 300
 atcttg 307

<210> 17898
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F7

<400> 17898

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 ataagctcgg tggccagttc cacctgcgct cgatcatctc tgaagggtga cggccccgta 180
 acatatgccc atctgtctca tcttatgaaa ggagatttgc cacaaggaac tacatgaccc 240
 atagcctttg gggcccttca atgtctgtta gcggtggcat caatgtccca gtgatgcaga 300
 ccccgctctg tgctaagtct cctgctgaga aaggaagcaa gaacttcattg attgatttca 360
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<211> 438
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 tcccctacgc agatgaagta gacgatgtta tcttacctcc tgctgtccgc atcttcagca 180
 gcaccatctc gcaatgatgt ctggatgtct cgatctggaa gggatgaaac aattcactga 240
 acaccaaact tatcaacgcc ctgcatggca ttccaaattt tcgtctggag gggattcatc 300
 ttggtcttgt ctcaattatc gcagctgcgt ttccagctct gttttgtaaa catattgatg 360
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 <211> 413
 <212> DNA
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 <223> unsure at all n locations
 <223> Clone ID: LIB3062-029-Q1-K1-G1
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 cgctcaagga cacgctcaac tgggccgtcc accgtcacct cttctaccag gacgcgtcgg 180
 atcttcggga caagtctgag gccaaaccgac acgtggataa cctggacgtg gtcgataggc 240
 tcatcgacga tgcggaggct cagtacagga actttcagca ccccgatccc tacattgttc 300
 catgggcacc aagcggcact aaattcaca gaaaccnngc ttcacctcaa gggatcgaga 360
 tcatctacaa ttatggcaag gaggaccaag taaacaagag tcctgcaagc ggg 413

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 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-G10

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aactcaggca atctgttgaa tcccaagcta ctatggagtt gtttgccggc ctctcagccg 120
cctaattctta tcggaagtca tcatcccatg agccaaagac tgaaccttgg cggctcaatg 180
gtcagacaga caacagctag tgcttcggca gctgccccac agacaaggat cgacatgttt 240
atctccggag actctccgaa tagcgcgctcg gatttgagct tccctaaggt ccacagcgag 300
cttagctcta gcagctgcag ctttgacggc ctgctcaact tcataatcaa agtgtagaat 360
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<210> 17902

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-G11

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ctaggctttc acgaaatata tggtgggaat gcaacacctg tgtggtataa catggtaaaa 180
caaggtctca tcagtgaccc tgttttctct ttctggttta accgacatgc tgatgaagga 240
gaaggtggtg aaatttgtgt tggtggaatg gattctagtc actacaaggg tgatcacacc 300
tatgtcccag tcaactcagaa tggatactgg cagttaaca tgggtgatgt ccatgttgat 360
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<210> 17903

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-G12

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ctacgtggaa aagatgatgg tatcaatgca ggagtggcag gctgttgacac tggccttgcg 180
ctgagctttc caggtgcacc gcaaactctg attcagagct gcctgacctt tgggactttc 240
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gggattaagg atcaaaaggc tggacaaagt gttcttcctc ccttcacgct ccctcttcgcg 360
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<210> 17904

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n' locations

<223> Clone ID: LIB3062-029-Q1-K1-G3

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cggacgatgg ccttgcatgc atatcaagat gtggacgtct aacatacctc aatttgagtt 120
ggtgtgtacg tgttactgac actggtattg tagctattgc gcaaggttgt cgagccctcg 180
aactgttaag tttgtttgga atagttgggg tgaccgatgc atgccttgag gctttgtcaa 240
aatcttgctc gtccagcctc acaacactcg acgtaaatgg ctgcatagag gaggagccgg 300
gatgacctgc tgaagctctt cccatcactg agttgcttca aagtgcacag ctagcatgca 360
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<210> 17905

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-G4

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cccggcgtgc ggtccggcgc tggag 145

<210> 17906
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-G5

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 gctacggcca ctactgacc ggtcctggct gagctcctgc tcttcctcta cccgacctcg 120
 cccatcgaca ctgtgctctg gaccctggac ctagaccttt tccaccacgt cccgcaagac 180
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<210> 17907
 <211> 164
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-G6

 <400> 17907

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 attggtgtta ggacctggtg acctgatcac ttcgaggatg gagagtgggt cagcggtggg 120
 tcttgtcgca tgaaattgcc ctacaacaag ggagagttca tata 164

<210> 17908
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-G8

 <400> 17908

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 ttgcttttgg tactccagaa aagcaaactt tgattgaacc tatatttgcc caatggatac 180
 aatctgctca tggttaagact acatatgggt tcgatatact cttatcttca acgaatggcc 240
 ccgctttcaa tgcaggtcga aacatatggt tgcccggatg gttgaatgct gttaatgaga 300

atagtaattc gcttttctta acaataggac ctggggattt cttggttcat catgctattg 360
 ctctaggttt gcatacaact acattgattt tagtaaaggg tgcttttagat gcacgcggtt 420
 tcaaattaat gccggataaa aag 443

<210> 17909
 <211> 101
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-G9
 <400> 17909

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<210> 17910
 <211> 287
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-H1
 <400> 17910

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 gttcatatgg tgaacaaaca gtacatctct tattcaaata tcgtctttta tgcaaataccc 180
 aaaaatgaac agcgacgctg gacgaagcag actgcaataa ggaggaagaa acggccgtac 240
 ggtcggcatg cactggtata tcatgatcaa gccgtgagct ccatgat 287

<210> 17911
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-H11
 <400> 17911

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gattccccggc ggcgtgcbgag tgaaggggtg ggtcatccag tcccacaaag gccctatcct 180
 caacgccgcc tctctgcaac gctttgaaga tgaacttcaa acatcacatt tacctgagat 240
 ggtttttggg gagagtttct tgtcacttca acatacacia actggcatca aatctcattt 300
 taatgcbgctt gatgcactca aggcattgaa gaaagaggca ctgccacctg ttgaggttcc 360
 tgctgcatca aaatggaagt tcataagtaa gccctttgac caggttatac ttgac 415

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<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H12

<400> 17912

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<210> 17913

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H2

<400> 17913

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 aacgttcata tggatgaacaa acagtacatc tcttattcaa atctcgtctt ttatgcaaat 180
 cccaaaaatg aacagcbgact ctggacgaag cagactgcaa taaggaggaa gaaactgccg 240
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<210> 17914

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H3

<400> 17914

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 catgatctgg tgatacaaca cgtcctagcc cattcctaac atgatcaaga tgataaacca 180
 cgccatgaac agcgacgcta cgactaatcg aactgacta caggtcaaga aacacacgaa 240
 cgggctccat gca 253

<210> 17915
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-H4
 <400> 17915

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 gtgcatacat aagtgttccc gaataccggt acgcttgtgg aggtggactc caatcactta 180
 acgcttgggt tgctccagag ggtacagtgt caccattgca ccatgatccg gattacaaca 240
 tactagctca tggtttgggc aggaagtgt ttagactcta tcttgctttc atagctgagg 300
 ac 302

<210> 17916
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-029-Q1-K1-H5
 <400> 17916

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 agtgctgggt cggcgagtgc accagctggg cgggctgtg gacctgcgac gacctcctca 120
 ccaagtgcgc cgtcacctgc aagaactgcg tccccgtgtc cacggacaag ggggccatca 180
 agtacagggt ccgcgacttc cttcccgaag actgcggctg caagatccac tagagactca 240
 tccaattcca ccatggccgc gcgccacagc ggcacagccg atggatcctt ccatgttctt 300
 ncgtccgtcc gnettgctac aagcaggcag ccacaccaat aagctagctc tgggggtgtgn 360

tttgtatgtt tgattgggtg tcccttccca gtcgagatgg aataaaataa atcatcatgc 420
gccaattagc 430

<210> 17917
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-029-Q1-K1-F6

<400> 17917

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ctggcaggcg atgtcgccgg cacgcggaag gccgtcatcg acatcgctga gctctgctac 180
aagaccggcg cgtggaagac gctaaacgac cagatcggtc tcctctccaa gaggagaggc 240
cagcttaagc aggccattac tgctatgggt cagaaagcaa tggactacat tgatttgaca 300
ccagacattg acacacgagt cgagctaadc aaaacactga gcagcgtctc tgctggcaaa 360
atztatgttg agatagagag agcaaggatg atcaaaaagc ttgcanatat caaagaggag 420
catggaaaga ttga 434

<210> 17918
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-D7

<400> 17918

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ggacccttcg ccggccacta gcaccaccag ctcaaagatg gcgagcatac cgtctctcga 180
cagcatgaat gcgttccac atgcggaaga ccacttcgtg aagaagactt actctttcgc 240
tgttgt 246

<210> 17919

<211> 196
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-D8
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 caagtccggt gtcaataaga agaacaggca gtcctaagcg ctaagtctgt gatctgtcag 180
 gtggcatggt ggtgct 196

<210> 17920
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-D9
 <400> 17920
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 gacaggatcg taaaggatta cacagacttc gctaagggtg gctttgagaa cttcgggtgac 180
 aaggatgaaga attggttgac ctttaactag ccacatacat ttacaacctt ttcgtacgga 240
 acgggagttt ttgcccctgg actgttctca ccatgagaaa aatgtgctca acctattgct 300
 aactcactca ccgaaccata cattgctggc cacaacatcc ttcgagccca ctctatgact 360
 gttgacctct acaacaagaa ttacaagggt tcagactgcc gcattggg 408

<210> 17921
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-E1
 <400> 17921
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 aatggctggg ggagaatatt gacaagaaca agactaggat attttttgca ggatcgtcac 120

caacacattc ctgggctagc aactgggggtg gagaagacaa gaacaagtgc cttaacgaaa 180
cagagccgat ctacaaaacc ggatacaaag ctgcaactac agactacagc ttgatggcca 240
aagctaagca ctactttcga acattggagc cgaaaggcat acatgttcaa atactgaaca 300
tcaccgagct gtctgactac cgcaaggacg ggcacacctac ggtgtacagg aaacagtttg 360
ctcctctgac gaaagaagca atcgagacc cagccagtta cgcggtattgc acgcactggg 420
gccttccccg agtttctgat gtctggaa 448

<210> 17922

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-E10

<400> 17922

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agtccagtga acatcgggat gcccatgaat cacggtgcca actagatcgc tcagatgcag 120
actaaactgt ctacgcaaaa aatgcctgac aatcttcttc atttgcaggc tataaattca 180
catcgtcctg atcgggctct aca 203

<210> 17923

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-E12

<400> 17923

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gttttggaat gccacagagg ctccgctttc tgcgggatga ctgacgccga tgtacacaag 120
catatccagc acatgggtgaa gttcattcct cagtatgtca aggacatggt gcattatatc 180
gaag 184

<210> 17924

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-E2

<400> 17924

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cggagactgt tgacaacaat cttgaggctg ctaatgcaaa gttgaacttt gatgataatg 120
ctgcatttat acagaaagat atattttcac ttgggtgatac aactcacgat taccctagtg 180
aggccgctgc tgtcaaagca aatttgactt atat 214

<210> 17925

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-E3

<400> 17925

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cttttcagta tcaaggccct tgactgcccc acaagtcctt gcagcaaaac aaagtgcacc 180
agtcacttca acagctcaga atgcaccttt tctttctcgt tcaatgagtg ctgttgggcg 240
gttgggggaat gaaccatctg ccaatgctcc tagtttcgtt ccccgttcac gaacatatcg 300
caatgccatg atggagaaaa gttctgggtg tggaagcttg ttcacaacgt agcaaggttc 360
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<210> 17926

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-E4

<400> 17926

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ctagtatgca tatctgaata ttagaagcaa gcttacttaa atatcttttc cactaccgac 120
acctacacat tcttaaagta cttgactgcc tgacatagtc catgcaccag ttctttatgc 180
acacatcac 189

<210> 17927
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-E5

 <400> 17927

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 ttgcggcggc gagcgcatca tcgtgttcac caccaaccac atggacaagc tggacccggc 180
 gctgatccgg cggggcagga tggacatgca catcgagatg tcctactgct gcttccaagg 240
 cttcaagggtg ctgcgaaga actacctggg cgtgcaagat catgacggcg agctgttcgg 300
 ggacattcgt cggctgctgg aagaagtgga ca 332

<210> 17928
 <211> 89
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-E6

 <400> 17928

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 ggtactcagc aacgtgagca ttgcatacc 89

<210> 17929
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-E7

 <400> 17929

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 atcggaacct taatatcaga atcatgcttt cctaactagc actgcaacta ccgaggcctt 120
 ttattatca aagaccatca ctgcctccac acataaccac aggataacaa acagcaccat 180
 tcactttaac aactcaaat gcaccactta ttt 213

<210> 17930
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-F1

 <400> 17930

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 ctgcctctga ggccagggtga tcgctgatcc atacataaac agagggtaca gacacgccac 180
 ctgggaacgc ggatccaaga gcacacacgg atcgtacttg acgaggaaag agggaggagc 240
 agtgtggctt gagctctcca gtgttggtaca aagacatgtt tctttctgaa cccaaaaggg 300
 agaaagatgt atgaagcgtg tatataagat cttagctagc agtttggttt catttgtatg 360
 agcgatcgaa ggctgt 376

<210> 17931
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-F10

 <400> 17931

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 gatttcttga aatttctgga gtaggagccc ctccaatttg gcagagcatg aaacagcaca 120
 tactggtctc aatggaagtg cactctatgg gactcaatag agaccggaa tcaatgacgc 180
 aatacatgcg tcaaagcgat tttgtgatgg cagtgccctt cggatgatcc acggatgcct 240
 tcgaacattc gtgaaggatc atgttgatgt tgcaagcacg agccatgaag ctaaataaaa 300
 atcatgattt tttgcaaata ctcatacaac aaaatggtgg ctgaagtaaa gaagtacgga 360
 gagaaccttg ctgtcttgag ttcaagcgaa taccttctgt c 401

<210> 17932
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F11

<400> 17932

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ttggtgtatg gaacgagctt gctgccaaag cgaaggctgg acaggaggac tgctgcagcc 240
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ataccatatc cggttggggt cctgaccggt atgatcacia acccatatgc agctgggctt 360
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<210> 17933

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F12

<400> 17933

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ctagaagagc tagaacgtag atagaacggc attcggatat gggacgacat tgctatggaa 180
taggagacgc acatcacata tacatgcaac caaggtctga cagcacatat atgccacttt 240
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gctagcgacc aatactgtgg atttctttta ccaagttaat atgctgcatt gcacactcac 360
ataatattgc acacctg 377

<210> 17934

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F2

<400> 17934

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gggaacgttc actacaatat gttgatctct tcatgcaaaa atctcatgat aataaaaggc 120
 tctacctcta aggccagata atctctgata catacataaa catatgctac acacactcca 180
 cctgtcaact ctcatccaag atcacacact gatcgactt gacgaagaaa gaggtaggat 240
 cagtgtggct tgagctctcc aatgttgtag aaagacatgt ttctttctga acccaaaatg 300
 gagaaacatg tatgaagcgt gtatataaga tcttatctag cattttgttt tcatttgtat 360
 gagcgatcga aggctgt 377

<210> 17935
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-F3

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 tctctgctcg caaatcaag ccatagctgt tgaaggaagg taacctcgat gaggcagcaa 360
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<210> 17936
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-F4

<400> 17936
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 ctttctccgt aagatctctt gctaggagta gcctgtccc tgtgcgcgct cgcacggaca 180
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cacaaggacc cggtgctccc caagaagcaa tttcttgact cttccaccaa ggcgaatgcc 300
 gtcaacggga atggtggcgg aggcaaccgt gttgctccag ttggtgatgg cttcgggtgat 360
 ctcaagtaca aagtcgacgc ttaagcttat 390

<210> 17937
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-F5
 <400> 17937

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 ccccccccc ctctctctct tctctgccag ctgggttcgtt ccgcaccgt cgtcgcattg 240
 ggtgccgagg agggacgcaa tggagcagta cgagaagtg gagaagatcg gggagggcac 300
 gtacgggggtg gtgtacaagg cgctggacaa ggccaccaac gagacgatc 349

<210> 17938
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-D6
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 gggcccttcg ccggcgacga gcaccaccag ctgaaagatg gcgaggatac cgtctctgaa 180
 gagcctcaat gcgtttccac atgcggaaga gcacttgttg aagaagactt actctggcgc 240
 tgttgtgaca atttttgggc tacttataat gattacactg tttgtgcatg agctgcagtt 300
 ttatcttacc acctacacgg tgcacagat gtctgtagat ctgaaacgag gagaaactct 360
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 aattgacatg tctgggaaac at 442

<210> 17939
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B9

<400> 17939

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 tagttcggag cactcatcca tgtccattgc cggcactctc ctacacattc tcagactact 180
 ctctcgatag 190

<210> 17940
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C1

<400> 17940

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 gtagatcact tctttatctt gcttgtgtat aaatttcacg accacagggt tagtagttta 180
 ggagttatga tttttccaag tacagtatac gaatctatcc agattctgta cagatttcga 240
 aaactgtctt gtttgattaa gttaactta gaatcagttc ttagtaatta taaagaagtt 300
 gtagtacttt tcttaagctt tccaaaaaat ttggatcacc ctttttgggg atctataaat 360
 taagttagtg cttgttgagt taggatct 388

<210> 17941
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C10

<400> 17941

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cataatacta catgccagaa tattatgcat tatactctca caaactttgc ctgttctaaa 120
gcggttctg aggtcatctt acaaacccca gttagctaca acaagcatat caccactcct 180
agccacacag ctaacatgat caacctttca accaaaatta ttagccaaga tcatctaatt 240
catgtgatgc ctacaatagc aaactcatat gtttctatta ctgcctacaa attccacttc 300
ctttgatcat atatcagtga tgatgacatc ttcagtcac atctaa 346

<210> 17942
<211> 317
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-029-Q1-K1-C11
<400> 17942

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gcacattcct gggcaccgcg ctggcggacc cggcgccaca taacggtcgc atcgtggccc 120
ggttcgggtt cgggttgtgc ggcaaggcga agcctgctcc gaagaagggtg gcgaagacat 180
cgacctctc tgaccggccg ctgtggttcc cctgcgccgt ggctcccgac tacctggacg 240
gctcgtggt cggctactac gggttcgacc cgatcggctc cggttagccc gtggagtacc 300
tgcagtacga gttggac 317

<210> 17943
<211> 209
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-029-Q1-K1-C12
<400> 17943

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agcataatcc aagactcacg aactaaaaaa aaagccgcaa tattactgcc tcatcttttt 120
ccagatcgat gtcaccttca gcagcaaatac agatcaatgc atgaaaagaa tgtcagctaa 180
tacatatgac atactctaac aggccatta 209

<210> 17944
<211> 170
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-C2
 <400> 17944
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 tccactactg tcttcagtta tatagtgcc gtaccttaat tcagtgaacc atagttttca 120
 acctacatat tacatcgga atgtgacat cactcccaa tcttccttat 170

<210> 17945
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-C4

<400> 17945
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 cctacccta cgagatgggc ttcgacgtca tcagaggccg ttcgcaatga gcgtgatctg 180
 cgtatgtgtg atgagctgag cctcccgatg atgcctgtcg gtctgacgag gcttctcgtg 240
 tgttcgcttt acccccagtt ttaccaccg gttattccta gagatgggtgc agtgcaacgt 300
 cttcgtgtgc tgatgcttat gggtggagtt accgggtag aatgcttatt gagtggcagc 360
 cgattaattg aacgtacagc ttcgcgacgt acaattccac tgattcttga attatattta 420
 attgatgaaa tagatgcat t 441

<210> 17946
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-C5

<400> 17946
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 gccacttgcg ttctgcata ccaagaagtt ggtgggtgcta gtgcctcgca aagtgccatt 120
 gagggccaga aagctactgc tgcggcatct cagctcactc gcagtgggtc atcaagggca 180

atggaaaatg cacaggacgg ctgggagagg aagtaacgag atagagtctg tttttttttt 240
atcgtctatg cctacatctt atggatgcat atgacctgc ctgacgat. 288

<210> 17947
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C6

<400> 17947

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ggcaagttaa tagcttgatg aatattttcc aagctgcata tggcagtga aatggtaccc 120
tagttctcaa tcaggcttca gcaaagtctt gtttctctga cattatgaac atccttgcaa 180
gcaaaggggc aaacaccaac atccctgagt tatgtactct gaggccatca aatcttactg 240
atgtttcttg tactgtgaag gatattagct cttttgagaa aatagtcaac atcagtaaac 300
tccaagatgc atgcagcaat gttgaccac tgaaag 336

<210> 17948
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C7

<400> 17948

agacagctta tgattgctcc atttctatag ctccactaga tgctgatatt atatgggtcc 60
cgcaatatca taacttgata catgcattcc aatctgcata ttacagctgt aaatgttact 120
ctacgctatg aatcatatcg tcaacataat gcttgaaaac tctcacatta tgaacatcct 180
tgcatgcaaa ggatcaaaca ccatcattcc ttaattatat actctttaac catcaaa 237

<210> 17949
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-029-Q1-K1-C9

<400> 17949

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atagtactgg atgccaggat attgtgcatt atatgcgcac aaactttgcc tgttcgaaag 120
cggtttcttg ggtcatcttg caggccccag taagtacag ggagtataga gcaactgtct 180
cggaacacagc tgaaatgata gacctggcag ccaaactgat tagcgagggt cgtggaatgg 240
atttgatgcc tagaaaagca aactcagatg ctctattac tgcctacagg taccactccc 300
tttgttcata tatgggtgat gatgacatgt tcagttcaga tctaagtga gatcagctga 360
ngcagagact tggtcatatg tcaatcacac 390

<210> 17950

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-D1

<400> 17950

gtgatgcgct gtgtcaagaa ctgctccagg ctagggcgaa ccttgagttt gagaagaagg 60
cgaagccaga gctgactgctg caggttcagg caatggagaa ggatcttggtg gctatggctc 120
aggaggcgga gaagctgagg gctgatatcg cgaagagaaa cacacctact agtttcagca 180
gccgtggaac gtatggagcc tcgttgctga ctctgggat gggtttgcaa ggcattgatg 240
atggcggcgg ctattctatg gctgggagcc gctacggcag tggcactggg gcttggagct 300
cgcacgatcc ccatggctac ccgcatcttt aact 334

<210> 17951

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-D10

<400> 17951

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gcttgctgtg gtggctgagt caaaggaggt tgctggggat atgatcactg aaactgtgct 120
tgatcacgtt cttggtgaga agacgttcga gaaatttgga aagtgggttca tctcgcttca 180
tttttcggac cagttggcag gatcctacaa gaaggtcctt acattcaagt ttgtattgcc 240

agatgcaagc aacatgtcag agatgacaag attggtttct cttgtgccat actacattga 300
 tttggcaggg cgttataagc tcaagtctca tgctcgctct aaaactgatg gagctagaac 360
 gaaggctgct catgaagcta ttagggaact acag 394

<210> 17952
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-D12
 <400> 17952

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 actcgttctt tcagctaact aactgcacg caatggccac cacggcgacc gaggcggcgc 120
 cgtctcatga gcagcaggcc aaccgcaacg gcgagcagaa gacgcggcac tccgaggtcg 180
 gccacaagag catgctcaag agcgacgacc tgtaccagta catcctggac actagcgttt 240
 accctgctca gccctaaagc atgaaggagc ttcgcgaggc caccgccaag caccatggg 300
 acctgatcac taccttcgac gacgagcttc aggccctgaa catgctcatc aagctcatcg 360
 acgccaata 369

<210> 17953
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-D3
 <400> 17953

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 ggcgagtcg gatcgaaggc cctcgccgtt gccgccgttc tggcggccgt ctccctctcg 120
 gtggccgccc cgcccgaggc gccggcgccc agccccgtct ccgccgccgt cgcggcgtcg 180
 tcgcccttcg ccgcggccct cgtcgcctcc gccgccgctt tcctcttcgc cgccgtccgc 240
 cactgagccg atggggcctc gtgcctgcag gctacctagc agtactttcg acgctgctgc 300
 cgccgccggc tagatctatt tattggagtg ctatccagta gtactagtag tagtgagatt 360
 tcttcggtgc tgctgtgtcg tcgtcgcatc ttggtcggat ctggttttct tggtgcaagg 420

agggtttcta t

431

<210> 17954
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-D4

<400> 17954

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ggagcaagct tgcttcctag gagcagctgt ttgtaaggga atctcaaact ggaaagcttg 120
cggagacaaa aacaaggagc atggaagagg aagtaatcaa gctgcataaa tgcttacagg 180
acaaggatga acaactgcat tcattcacaa gtagcacgga acaggaaccc aactgaacct 240
tcaacttgct tggtctggga gatctgtgag caagcgagtg ctctcataa tgggtattcg 300
acatgagccc catccctgcc acagacttgg gaaaggcaca atgattttta tggtgacatg 360
aatacattcc tcttcaaatt atatctttaa gcatccattt ttcgccctac tggtgcaaac 420
aagaatttgc aatgggtagg ttactg 446

<210> 17955
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B8

<400> 17955

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tgccccgcaa cggcgtcaag ttcggcgagg ccgtgtgggt caaggccggg tcgcagatct 120
tcagcgaggg tgggctggac tacctcggca acccgagcct gatccacgcg cagagcatcc 180
tcgccatctg ggctgccag gtcgtgctca tgggcgccat cgaggggtac cgcgtcgccg 240
gcggccccgt cggagaggtc gtcgaccgc tctaccccg cggcagcttc gaccgctcg 300
gcctcgccga cgaccctgaa gccttcgcgg agctcaaggt gaaagagctc aagaacggcc 360
gtctcgccat gttctccatg ttcgggttct tcgtccaagc catcgtcacc ggcaagggcc 420
cgctcgag 428

tactgctccg gcccacacgc gctcgaccag tagctgtttg gtttcggttt cgtttcatct 120
cctactagga tggaaatggaa tgggatttta ctacgtacca gtgaatcgaa tcctctagcg 180
catttggatt ttcctctcct ctccccgggg aaatccatgg gatgcttctg tatagagttg 240
ttattatcaa tgaattaatg ccactttcgg tg 272

<210> 17959
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A12

<400> 17959

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tcctccttcg cgggctcccc gctccccggc gccacgcgga ccacaccggc gtccctcgtg 120
gtggccaccg gcccgcgcg ggcggggcg gggcccatct gcgctccat gtccatgtcc 180
tcctccaacc cgccctacga cctgacgtcc ttccggttca gcccacatcaa ggagtccatc 240
gtgtcccgcg agatgacccg tcgctacatg acggacatga tcacctacgc cgacaccgac 300
gtcgtcatcg tgggcgccgg ctcccggggg ctgtcctgcg cgtacgagct ctccaaggac 360
cccgccgtga gcatcgccat cgtggagcag tcggtgt 397

<210> 17960
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A2

<400> 17960

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gggggacgac agaggcataa acccactaga tgtagcatc atggctccag attatgtcac 120
tttagctgaa gattccatcc atgttgaagc aaatgggtcac aatgagacac aagtgaagat 180
ttctgtcaat gatgatgcaa atagcacgac aatagtcac aaagtgcag aaaaatcctg 240
caacatcagc attcacagtg caatcacaag ggagacggct ggcagtggca gagtataaa 300
gatgccactt acgccaacat acacgtact gccagtcttc cttcttctcg ttgcggtggc 360

agtgtgcatc gtgggtccgga agtggcgcaa ccaggacggc gaccctgcgt a

411

<210> 17961

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A3

<400> 17961

tacaaacttc ttcacaatac tcattttatc tctcacttct tgtgtacagc acacccttaa 60

aagcattaga tcttaccatc attactccac attaccacac tttaactcaa tatttcatcc 120

acttttaagc ccatgatcac aatgagacac aatttataac ctctgacaat aatgatgcat 180

ataacacgac catatttcac caaaattcat aaaaaccctt caacattatc actcaca 237

<210> 17962

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A4

<400> 17962

ctctaacca atcattactt accaagttct gtcctattca tatctagggc tacccttcaa 60

atacattcct attcatcacc aaattccaat tcataactcc attcatcgtc tatctcatct 120

tctacactat ctcaatcaaa acacttttga tcaccataaa actatttttaa taccttataa 180

acttcaaaat gaacctttac ttacctacca aactattcat tattattctc atatcgctaa 240

taaaatctac atgttaaata ttcaaaaact tcaaactcaa gaacttatta cacttcataa 300

agctcatctt ataactttat acaaccata cataatatca 340

<210> 17963

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A5

<400> 17963

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atgcacacag ttaaattgaa caaaggacct ggagaagata gtatcaagcg acaattacaa 120
gctgttgctg aaggggtagc cgcattcagtt cttcagccac cctttcctga aaaaacagtg 180
gtgttctctg gggatcacat cgattcgcat ggagcagaag ttgatgtcaa gttccaagat 240
gaaaggaaca atcagtcaga caaaataagt caaggggttc aagttttaaa tgacaacgat 300
taccttcaga ttattaagaa 320

<210> 17964

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A6

<400> 17964

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tggcctattg ttttcgagtt atgtcctcca aatacagtc tatttatctg caaagtcgga 120
ttgataactt cattgatggg ctatctgctc tgctggacga gctcagtga gagacttttg 180
agcaccatag aagtgggtta atagctgata aactggaaaa ggaaccttca cttagctacc 240
aaactagtga ttattgggtc cagatcgctg ataaaaagta catgtttgat atgtcaaaac 300
tggaagctga agagcttaag acagttcaaa aagctgatgt tatagcttgg tacaacacat 360
acataagatc atcgttccca aagc 384

<210> 17965

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A7

<400> 17965

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tagtggcctt caagattatc tgaaccagca agggttccat gtcgctgcgc atggctgcgc 120
cacttgtgtg ggcaactctg gtgacctgga tggatctgta tccgctgcta tcacagaaaa 180
tgatatcggt gctgctgcgg tgctgtcggc caaccgaaac ttcgaagggc gtgtgaacct 240
tctcactcgg gctaactacc ttgcctcgcc gtctctggtt ggtgcctatg ctcttggcgg 300

cactgggtgac attggttttg aagaagaacc cattggaatt ggaaaggggtg gcaaggaaat 360
 tttcttgaag gacatatggc cttcaaacca agagatcgat gaa 403

<210> 17966
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A8

<400> 17966

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 gctcccgcg cccgcgcggc tggccctcct ttccaccccg cgggcgtact ccgctgccgc 120
 tgctgcgggc gcctccccga cgtccccagc gccatacggg ggcgcccccc caccggcgat 180
 gtcgaagacg gccgagttcg tgggtctctaa ggtggacgac ctgatgaact gggcgcgtaa 240
 gggctcgatc tggcccatga ccttcgggct cgctgctgc gcggtggaaa tgatgcacgc 300
 cggcgcgtcc cgctacgact tcgaccggtt cggcgtcatc ttccgtccgt cgccgcgcca 360
 gtccgattgc atgatcgtcg ccggcacgct caccaacaag at 402

<210> 17967
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B1

<400> 17967

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 ccgcgccgac gtcgtggggg gctgggtcttg cgccggcaac aactctggag cgcgctacaa 120
 ggccgtcgtg cacctcagtc aactgcgca gtgggagagc gcgcgcctcg aggccgatgc 180
 gcgtctggcg cgcgaggcca ggctgctgc ccttgctctg ccaccgtcgc cagggccggg 240
 acccgctttt agcgggctcg agtcgtcgac atcgactctg 280

<210> 17968
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B10

<400> 17968

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ttcaacctta tcttggttca aatccactag atattcttcc aacaatgcct cacatcttca 120
tttaaaatac tggatcttca ccttaatttc aatatccaat atcatcactg ccagctgac 180
actaacttct tccacctata tcactttcca ttgcataatc taatcat 227

<210> 17969

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B11

<400> 17969

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catacttctg gatgccagga tattatgcat tatatgcaca caaactttga ctcatcctaaa 120
aacgtttata gtgtcatctt gcataactcaa ctaactgaca gtcagtataa agacactctt 180
ccggaaacat attaaatgat acaccttgca cgcaaactaa ttaaccactg tccacgaacc 240
tatctcatgc ctagaaaagc aaactcatat gctcctatta ctgcctacag ataccactac 300
ctttgttcat atataactca tgattacatc ttcaattcac atct 344

<210> 17970

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B12

<400> 17970

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gcctgtacaa ggaggggggac agcatgatgg tcagcctcat ggcgggtggtg gcgtcgtacg 120
tctactcctg ggtatcatag ccaccagatt catcaagcca tcagcatcgt atagctgcac 180
aaggcgtccc tcgagcttat gactctgccg attcgggtccc tgcagtatga tccacttgtc 240
ttactc 246

<210> 17971
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-B2

 <400> 17971

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 ttacttcccc ttgactgggt tggctgagtc agaaatattt tgtttgcatt gtggattatc 120
 gccatccatt gagaccctcg acaacatccg caacttcgac cgtgtccaag aagttcctca 180
 tgaagggtcca atgtgtgatc ttctgtggtc tgatccagat gatcgatgtg gttgggggat 240
 ttctccacgt ggtgctgggt ataccttggg acaggatata tcagagcagt tcaaccatac 300
 caatagccta aagcttattg ctgagagctca ccaattgggt atggaggggt tcaattgggc 360
 tcatgagcaa aaagtcgtg 379

<210> 17972
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-B3

 <400> 17972

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 cgtgttgaga tcgagtggct ctttgacggg accgatttct cggagccgct gaccctgtgc 120
 aggtttgagg agctgaacaa cgacctctt cgcaagacca tgggccctgt caagaaagcc 180
 atggaggatg ctggccttga gaagagccag atccacgaga tcgtcctggt tgggtggaagc 240
 accaggattc ccaaggtcca gcagcttctg cgggactact tcgacggcaa ggagcccaac 300
 aagggtgtca accctgatga ggc 323

<210> 17973
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-B4

<400> 17973

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agctgctggc agccaccagc cacctccatc gttggctact tggctccctc ctecttggtta 120
gaagatggcc ccatectcgt cctccagctc cgatggacat ggccatgctg ctccgcgccc 180
tgggactggt agagttcaag tggcgttgcc taacgcagat gctgctgctg aagctgatgc 240
agaggttagt ggtggttatg ctgaatctaa cgagccaaat tctactggtg ctccatcatg 300
tgggtctggt gtcggtccca atgattctga gtctatagtt gccaaaacat tagag 355

<210> 17974

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-029-Q1-K1-B5

<400> 17974

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aggactggtg gaaaggcttc agccctttct aaaggtagag caagcaaagg aaaagcatac 120
agtagtgaca aagggtgaaa gggttcttca tcacatgcag tgctaccaa gtctgatgca 180
gaactaaagc tagagcttga tatcccttca aattctagaa tgctaataa ttgtgaagca 240
gctgaactat tgcaagaaat tcacgagcac atggccatac tatcagaaga cccaagatc 300
aaaattcctg attcatttga caaaactttt cagtattcaa aagacggaaa tcatttcacc 360
actgcaagct ctgtgaaaca agccattgaa cctcttaaaa aatgtggngt cagtgatgga 420
gagatattca 430

<210> 17975

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H9

<400> 17975

aacgaactgg tgggtgggtt actgggttgg ggctggaggt cgtcgccgac ggccgggtgga 60

ggtgctcgct cctgcctgtg tggatctgcc gcccggtggt ggctcgc

107

<210> 17976

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B7

<400> 17976

tcgctcactc gtccggaggg gagacacatc tggttcggag gttccctggt gttaccatga 60

agcggagggt actgtacgtg aaaccgcagc tcagttttgc caattttgat ggggaacagt 120

actaattgat tcaagcattc tggtagttgg catcgcatca tttggaacgt attatgaata 180

tgctacagat cacatggaac atgtttgcat tactttggtt catgcttcaa tatgttt 237

<210> 17977

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G2

<400> 17977

cccacgcgtt cggcagaaga aagctcataa actagaggat gaactgggtg ccgcacggaa 60

ggtatcttca gaacgacagt tggcggttac agacctgtac aaacattttc tccaacttca 120

ggactacaat gatagggtca aaacagctga acagaggctg cagtctctcg ttgatgctgc 180

cttggtcgag ctcgacatgg ccgaagatgc tactaccaga gatggctcga tgtacgagaa 240

cggcgtgctt tgaacaccca actgccatgg gtttgtgtgg ttgctgattt gttagatttg 300

tagtttgcgt ctgccatgta atagaactgc attgtaacta gaaacaggaa aaatgttgtg 360

taagggtcgg agaattctgt gtcgtggtcc ctgagcccgg atttctcttt cgaaattgga 420

ttcatt 426

<210> 17978

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G4

<400> 17978

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ttaaaaagaa gggggggcca agaaatggcc atgactgcac attccttcca gccctactaa 120
aggcggactt cttgctactg tttctagcat actttccacg agttggcaca cgcctcactg 180
tactcaataa cctggcgcac attgcaatgt ctgttgacgc taatgacaca actattctgt 240
tgtgcctctt tctctactgc aaatgcgatg ctcaaactct tgggtggatct gactctgaat 300
atactgtacg gtcaa 315

<210> 17979

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G5

<400> 17979

ggcgacccat ggctccacag acgaggagag agagggtggc gggggaggcg cggccgggct 60
cgtcggggct aacagcggcg aagccggggg cggtcgaggt gcagcgccga cgggcgggca 120
gcggttggac tagccgctcg atctccatct acgcctaccg agtctacttc ctctcatca 180
tgctccagat cccgctcttc agggtccttt gtagagctgg cacatgcaca actgctattc 240
aagtaacatc atctcagttg gtctcaaatg atatattccc agcagctggt gtgaaagcca 300
tgctctaccc tggagctacc gtgagcagtc taac 334

<210> 17980

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G7

<400> 17980

cgcttaccat aatttctcaa actcttttag atacttcgtc tgatgaaatt cggccagatt 60
attatgaacg tacaatgtgc aaaccaccaa cggttcaagc taaaaacttc tcatgcaacc 120
atctatttca tctaccttgt ttgtgcatca tacgcttgat caatgactaa tctaataata 180
ctgctgtaca acttggttcta caccgttctt attatcattt gcacatccac aaatgtctac 240

aaattcacat cgtgcaaatg ttcataaat tatctaaca cttacta

287

<210> 17981

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G8

<400> 17981

ggtgggttgg cttctcctcc ccctccggtt cgggttcggg ttcgtgaggt tctccggggt 60
tcggtttcgt gggtgagcgg atcgagatgg cggcgtcgga tgttgagtac cgctgcttcg 120
tcggcggcct cgcttgggcc acggacgacc actccctcca caacgccttc agcacctacg 180
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggttcg 240
gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
aggagctgga cggccgcaac atcacctca acgaggccca gtcccgcggc ggccgtggag 360
gcggcggcgg cggcgggtac ggtggtggcc gtggaggcgg cg 402

<210> 17982

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G9

<400> 17982

cgacagaaag agggacgaat ggcgagctcg cagtgtctcg atgaccgcc ggccctgagc 60
cgggcctgcg gggagggcaa ggtcgtcgac agcttctgcg ggttcaaggc ctacgtcgcc 120
ggccccgagg actccaaggc cgccgtcgtc ctgctcgccg acgtcttcg attcgaagcg 180
ccgattatga ggaagatagc cgacaagggt gcttcgtcag ggtactttgt tgtggtacca 240
gatttgtttc atggggatcc ttatgcacct gagaatgttg agaagccctt tcctgtgtgg 300
ataaagtcac atactccgga aaaagggttt gaagagacaa aacatgttat tggggctcta 360
aaggagaagg gagtgtctgc tgttg 385

<210> 17983

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H1

<400> 17983

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atgatgaaat ttgtgcgtat gatgatgagt gtgccatctg caggggacca atgggtcgag 120

ctaaaaagtt gtcattgaac catctatttc atctagcttg tttgcgggtca tgggttgatc 180

aaggactaat ggaaggttac tcctgtccaa cttgtcggag accgctctta ttgtcatctg 240

aagggcaaag aagggtctaca actgcggagg tagcaaagt tcagcgaatt gcggaacaac 300

ttactatggg gatgaatcag cagagagttc ctggtaatga acatcctgtt gaacagcaga 360

accctcaga tgctgtttgg agaggtgctg gtctggatgc tagctggatt 410

<210> 17984

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H10

<400> 17984

gggcttttagc gatggtcctg ttcattggctg gcgccgcgct gctcgccggg gctgccggcg 60

cgggctcgca gcagggcgctg tggagcatca tcacccggcc catgttccag agcatgctga 120

gccaccgcgg cgacagcggg tgccagggcg ctttctacac ctacgacgcc ttcattcgagg 180

ccgccagcaa gttccccggc ttcggcacca ccggcgacga gcagacgcgc aggcgggagc 240

tcgccgcctt cttcggccag acgtcccacg aaaccaccgt tggatgggag actgctccgg 300

atggaccgtt tgcttgggga ta 322

<210> 17985

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H11

<400> 17985

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gttcaccata ctttggagca ggatttactg tccaaatctc acaagcacat ttcgatcacc 120
aggccgaaga tgacacccat cacaagcacg gaatgaggca ccacgtg 167

<210> 17986
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H12

<400> 17986

cgcgttctcg cctcatctcc tcccgtcag gatccggcgg cgaaggtaag gcaagatgta 60
gggcgcgagg aagaagatcc agaaggataa gggccttgag ccctccgagt tcgaggactc 120
cgtcgcccag gctttcttcg acctggagaa cggttaccag gagctcaaga gcgacctcaa 180
ggacctttac atcaacggtg ctatccagct ggatgttgcc gggagcagga aggctgttgt 240
gatccacgtc ccataccgct tgcgcaaggc cttcaggaag atccatgtca ggatcgtcag 300
ggagctggag aagaaattca gcggcaagga tgtg 334

<210> 17987
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H2

<400> 17987

gcggaaagcg aatcagcagg caatgggtgc ctagaagaaa aggatggaac cacggggcga 60
gggcccaggt gtttgtaagc agaagtggct ggacgacagg aagaataata tcggcaagct 120
gttggactca aatggccttg atatgtccaa ggcgtacatg ctcgatacgc aggagactgc 180
ataagccaag tacaagaaat gggagaagga acctgctcca tatgggtggg atgttttcaa 240
tcaaagacc ttgtatgatg catacaaaga gacgaccaag gatatagaag ttgacatgga 300
cgcgtaaat atagcctagg aagctgatcc tgaattctac cgtgacgcct gcagtctcca 360
gtacgggaag gtgttcaatg tccctgaaga aacatt 397

<210> 17988
<211> 383
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H3

<400> 17988

ggaagaaaga ctgttttatt gctttcgact ctgcttacta gtggattggg tcttctgagt 60
gctctatcta ttaactactt gtgcttgctg gttcttcggt tttttgtcgg cataggagtg 120
ggcagtgggc atgtattttc atcttggttc ttggagttcg ttcctgcagg aaatcgtggc 180
acttgatggg ttattttttc ctttttttgg actattggca cagtcttggg ggcttcactt 240
gcatgggctg tactatcagc attgagttgg aggtggttgc tggcattgtc ttcccttcca 300
tgcttcctct tgcttctttt cttcagaatc acacctgagt caccacgcta tctttgcgca 360
caaaatagaa tgactgatgc aag 383

<210> 17989

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H4

<400> 17989

gcctgataaa gcaaaacctt gggaactaat ggaagttcta aatccccagc aatgccgtgt 60
agcaacaatg ccagaaactc cagaccaagc cagaaagggt gtccgacttc tgtacacaaa 120
ttctggtggt ggggttgctag cactaggggc taacgccatt caaaggctat ggaaatggag 180
tcgaaacgaa caaaatccga gtggaaaagc cacagctagt gttgtgccac accattggca 240
gccaaatagt ggtcttgtca tgacaaatga tacagcagat accaatccag aagaggcagt 300
tccatgcatt gcactctcaa agaatgattc ctatgtgatg tctgcttgtg gtgggaaagt 360
ttctttgttt aacatgatga cattcaaggt gatgacaaca ttcattgccac ctcaacagca 420
tcaacatttt agca 434

<210> 17990

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H5

<400> 17990

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gatgttactg atgcgatgtt gctggaactt ttttctaaca aataccgatc ggtgaaagga 120

gctaaagtta ttattgatgc aaacacaggc cgttctagag gctacggctt tgataggttt 180

ggagatgata atgacaaaat tcatgcaatg actgaaatga atggcgttta ctgttccaca 240

agaccaattc gtgtaagacc agcgactgct agaagatctc aagggtgattc tggcacttct 300

ccaccaaagc aatctcatgt tgactctact aacaagacgg tatatgttgg tgggcttgac 360

cccaatgtta gcgaagatga actgaggaaa gcatttgc 398

<210> 17991

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H7

<400> 17991

ctgccctgcc tgactgactg ggatactaca ggaggttaca actgggcttc agcagtgggtg 60

gccttctgt ataggcaact ttgtgaggct tgtcatcgtt cgtcgaggac cgccagctta 120

ggtggatgtg tctacctact acagctgtgg atgtgggcac acatacccggt cgggcgaccc 180

agagagtttc ctctctgtga gtgggttcgtg gtagccggac atcggcttaa gccacggct 240

gcttaccgct gggaccaggt cgaggagcca ttcgcacgac accagcgtgc ttacgtggag 300

tactcaaagc agctcgacgc acttactcct tcgatggtga cctggcaacc gtatcttgat 360

ccatatttcg ccagcatata gttgagcagc atgtgctc 398

<210> 17992

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H8

<400> 17992

gagcgggtgcg ggactgactg ctatcctaga gcacgtacct gccggccatc gtcaggggat 60

ccattcacca ttggccgagt caacgagcat aagtacaaga tggccccgcac gcgcaactta 120

gataagaaca tgcacgtcat agagagccag ctctagacca acatgaaggc catgagcatc 180
cagagagcac gctcgtggca agcattccat gacagacgtg tatcagctct tgcccaatgt 240
taataagtga taggactgaa cttaggaacc attgctagtt aggccagggg gcgacccttg 300
gg 302

<210> 17993
<211> 224
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-028-Q1-K1-G12
<400> 17993

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tgggcaaaag acttgggtgg gaaattatca atgtcgttac acatcaagg tttgatcctg 120
ttgatgatcg gatgcaagtt attgatgcaa ctggcaatgt cggcatacta aacctgtaat 180
ctctaattta tatacgatcg gacatgccaa tggtgaagctc atgc 224

<210> 17994
<211> 174
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-028-Q1-K1-E5
<400> 17994

acaacaaaaa tgaccatact cttcctcatc actacaacca ctactacatt acaactcttg 60
actaactctc cctacaatac atattcaata gctacataaa tgctgatcat tatcacaatc 120
acaagcacca ccacataaac atctaagcca tcccctacta caacattgac cttt 174

<210> 17995
<211> 447
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-028-Q1-K1-E6
<400> 17995

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gaggagatga aggcgttcga cccgtggccg gtcttcttcc gccgggagtg gaagcgcaac 120
 tggcccttcc tcacgggttt cgccatcacc ggattcatca tcacgaagat gacggccaac 180
 ttcaccgagg aggatctcaa gaactctaag ttcgtccagg aacacaagaa gaagcactga 240
 cgaaccaggt gaaggagttg tcagaaacgc atgtttggcc agccagttct gttatgcttt 300
 tgaatgaaaa atttagaccc ttctttctcg tttccttaat cgaaatgctt gcaactctatg 360
 ttccatttgt aatgtaataa gaggcatatg gattgaacca acaacaatca acttctgatt 420
 gaaaatatcg atgtgtggcc tgaatgt 447

<210> 17996

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E7

<400> 17996

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 tctaagtgcc ttccagaagg aaatggaaac agttcatctt gtagttcgta gtctggaggc 120
 aaagcttgga cgcctagctt atactcaaga tcggacaaca cgaggaatat atgatttgtg 180
 tgaattcact aaaagattgg atcagagccc gaaagctgag actcatcagg ttacatcatc 240
 aactcctcgc cctgctattg aatcctcaga gagaattgct agggctggtt ctttgcccc 300
 agctttggaa ccagagtctc ctagaataga ggcgctaag gttgtgcgct catctacaat 360
 catgtcagca tcgggactta atttgctagc ttgaactaca acaccaacta aaag 414

<210> 17997

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E8

<400> 17997

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 tctaagtgcc ttccagaagg aaatggaaac agttcatctt gtagttcgta gtctggaggc 120
 aaagcttgga cgcctagctt atactcaaga tcggacaaca cgaggaatat atgatttgtg 180

tgaattcact aaaagattgg atcagagccc gaaagctgag actcatcagg ttacatcatc 240
aactcctcgc cctgctattg aatcctcaga gagaattgct agggctgggt ctttgccccc 300
agctttggaa ccagagtctc ctagaataga ggcgcctaag gttgtgcgct catctacaat 360
catgtcagca tcgggactta gtttgctagc tggaactaca acaccaccta aaagag 416

<210> 17998

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E9

<400> 17998

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aggtatctcg ggcgggagga ggcagccatc atgtcagagg agaagcacca ccacttcttc 120
aaccaccaca agaaggacga ggagcatccc gccggcgagt acgggtactc cgagaccgag 180
gtggtcaccg tcaccagcga gggcgagtac gagaggtaga agacggagga gaaggagcac 240
aagcacaagc agcacctcag cgaggccggc gccatcttc 279

<210> 17999

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F1

<400> 17999

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gtatctaagt gccttccaga aggaaatgga aacagttcat cttgtagttc gtagtctgga 120
ggcaaagctt ggacgcctag cttatactca agatcgga acacgaggaa tatatgattt 180
gtgtgaattc actaaaagat tggatcagag cccgaaagct gagactcatc aggttacatc 240
atcaactcct cgccctgcta ttgaatcctc agagagaatt gctagggctg gttctttgcc 300
cccagctttg gaaccagagt cttctaaaat aaaagc 336

<210> 18000

<211> 241

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-028-Q1-K1-F10

<400> 18000

cccactcgtc cggcccaaga cgatccttat ctactacttg gacaagttgc ccagaaggtc 60

gttcctttcn ctaaggggga tcggctgcga caaggcaggc aaaaatggcg gcaaaggctg 120

caagctcgca agggtttttg agcataacga aaagccggca aggacggcaa ctctcactc 180

ggcagccatc agcggcttgc cgttcttgca ggggaacca tctgcgctct cgcggtcact 240

g 241

<210> 18001

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F12

<400> 18001

gtgcgcgaca cctgccgcga gatcgggttc acctccgacg acgtgggcct cgacgcggac 60

cgctgcaagg tgctggtgaa catcgagcag cagtcccccg acatcgctca tggcgtgcac 120

gggcacttca cgaagcggcc cgaggagatc ggcgcgggcg accagggcca catgttcggg 180

tacgccaccg acgagacccc cgagctgatg ccgctcagcc acgtgctggc caccaagctg 240

ggcgcgcgcc tcaccg 256

<210> 18002

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F2

<400> 18002

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tccggccggc tacagcccgg agccgtggcc atggcgggcg ccagccccgc ccctagtcca 120

cctcggtctc ccggtgagct gccctccata tcctggccgc tcagtcgttc gccgcgccga 180

tcgcccagga agatctgcga tgctctcgtc gttgccgagg ttggtggccg agtgaggctc 240

cctcttctcc ctttataccct ctctctctct ggctgctccc tccctcccca caggttcttc 300
cccggcgagt agccctgtct gccccctgcc aagcagttcg tctcctcccg gcgagcccct 360
gcgcggctcc ccttccctcc gatgtgtggc cccagcgcac ggccatggcc gagtccctgc 420
agtcgtgccc cct 433

<210> 18003
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F3

<400> 18003

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aattctagaa aactgagggg ttctaggtat cggaggtttg aggaggaatt tagctctccg 120
cttgctcttg agattcacag gtatttcacc gatgaagact acagttacgc aacgaacttc 180
tatattctac tacatgctgt tgatcgattg gctgccaatt atagcacatt gcctggaatc 240
ttcgacaggc tgaagactgt tgcggcttca gtggcacgtg agatggggtt gaatggagca 300
tcctta 306

<210> 18004
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F4

<400> 18004

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ctttgttggg acttcagct tcagcgagta caccgtcatg catgtgggtt gtgttgcaaa 120
gatcaaccct caggtcctcc ttgataaagt ttgcgtcctt agctgtggta tttctaccgg 180
tcttggtgca tcaattaatg ttgcaaaacc tccgaagggt tcgacagtgg ctgttttcgg 240
tttaggagcc gttggtcttg ccgctgcaga aggtgcaagg attgctggag cgtcaaggat 300
cattggtgtc gacctgaacc ccagcagatt cgaagaagct aggaagtctg gttgcactga 360
atgtgtgaac ccaaaagacc acaacaagcc cgtgcatgag gtacttgctg agatg 415

<210>	18005
<211>	338
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F5

<400> 18005

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ttttacattt	ggcaccgggt	taccttttct	attcttaaaa	cttatttttt	ttgacctctg	120
gaaaactgta	ttttcaggac	attctgccac	gtctcttatt	ccaaaggctc	tacattcttt	180
ctgtctttta	aatatgacta	tacttctcta	aaatgtggag	ctcatacaaa	tcagcaagat	240
aaaacagata	atcccatcaa	aaagtgggtg	cagaacatga	atagacaatt	ctcaaaagaa	300
gatacacaaa	atataagtgg	tatacgttaa	ctatgtct			338

<210>	18006
<211>	397
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F6

<400> 18006

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gcaattgaga	aacttccgaa	caacatattt	gagaagagct	atcctttgag	agagtttgat	180
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gtagctggct	ctgtgcaagg	gggtatgtca	atagtcttgt	ccgcaagaaa	agaaaggagg	300
ttatcgggtga	ctattccctc	tatcagcacc	aatgctcttg	gttatggagc	tttcc>tagga	360
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<210>	18007
<211>	359
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F7

<400> 18007

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tccggcagcc gcggctgagg tagcgagggg ctactccgct gctgcgaacg agatgactgt 180
ccatgatgca ttgaactctg cactggatga agagatgtct gctgatcctt caggatttct 240
gatgggagaa gaggttatag agtatcaagg tgcataccag atttctaagg gctagcttga 300
caattatggt cccaatagga ttcttgacac acctattaca gaagcctgct atactggca 359

<210> 18008

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G1

<400> 18008

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gtgacgaggt gcgcaacggc gctggaggag gctgggtccg actacgagat cgtgcccac 180
aacttcgcca ccgccgagca caagagcccc gagcacctcg tccgcaaccg gtttggtcag 240
gttccagctc tgcaggatgg tgacttgtac ctcttcgaat cagcagcaat ctgcaagtac 300
gctgctcgca aaaacaagcc agagctgttg agggaaggaa acc 343

<210> 18009

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G10

<400> 18009

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ggacaggaga cggccgtgca catcgtgtac gttgaccgcc ccgaggacgc cgaccctgag 120
gagttccaca tccgcaccct ccccccgtc ctcggcagcg aacagaatgc cagggacgca 180
gtgctctacc actacaagaa cgccgccagc ggcttctccg cgaagctcac cccccagcag 240

gtcaaggatc tcaaggagca accaggtgtt ctccaggttg tgccgagcca gacttaccag 300
ctacatgggc ctgggtctgg cactcaccag ggcacgacac aacactttgg gccttatgtg 360
aaggcgtatg agaatc 376

<210> 18010
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G11

<400> 18010

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ccaatgggat agcggtagca ctaatgtcca tctctaaagc ggttgctcca gctggtgcag 120
gattcatatt ttcgtgggcc caaaggcctt aaacagctgc attttttc 168

<210> 18011
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E4

<400> 18011

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tcatatatgg cgattactac actccagtcg tccagttcat gcttcagcct gagaagtttg 120
gttttgccag acaactgccc agggcatgtt gtggggcgcc atcgactcct gagagagcag 180
cttacaactt caatgtcacg gccaaatgcg gtgagcctgg tgcaactgcc tgtgctgac 240
cgacaacca ttggagctgg gacggcattc acctgacgga ggctgcctac cgccatatcg 300
ccaaaggctg gctatacggg cctttcgcg accaaccgat catccaatcc tcatgatcat 360
gccgttcctg ctgtagag 378

<210> 18012
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-C2

<400> 18012

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tcgtcatctg cgggccccac ggtgactcct gtctcaccg ccgcaagatc atcatcgaca 180
cctacggcag ctggggagcc cacctcgttg gcgccttctt cggcaaggac cccaccaagg 240
tggaccgtaa cggggcctac gtcgccaggc atgacgtcaa gagcattgtg gccagcgggc 300
ttttccgacg gttgctcgtg caggtgtact acgccatcgg 340

<210> 18013

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-C3

<400> 18013

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gagttgccac ataatatcgg gactacatat tatatagtca ttcaacgcaa ggctatttga 120
ttatctaata tcgacggatg acacttaaac aaaggagaag cataccaatt aggactatag 180
ataagaggca tcattgaccc gcaaacggat caagcaaacc aataagggtga accagataga 240
gctaaacgtg tcccgcgaac atttgccaca gactttacat gcttaatacg gagttgtcag 300
acgaactgac tgcaaaaatg cattta 326

<210> 18014

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-C5

<400> 18014

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ctacggccgc gccgagcccc tcccgaagtg gtccgacgcc gacgtcgacg agttcatcgc 120
atccgacccg gtctacgggc cccagctcaa ggccctgcgg gagtcgagga agttcgcgct 180
cgccgggggc ctcgtcggcg ccgccacct cgtcggcgtc gcgctcaagt actccaaggc 240

gccgcacggc gtctgtctgg cgaccggctt cggcagcatc acc

283

<210> 18015

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-C6

<400> 18015

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caagttcata gcacccacc acgtctacac accctagctc acggccctga tctattcgag 180

gtagttcgtg ctgcgcggt tctccacag ctcacccat cttttcacat tcacgcta 240

gttctcctaa acgtctctcg ccatgacaat acaacctggc ttaagaacaa tatcacaatc 300

accaacgaca atggcgtct ctcca 325

<210> 18016

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-028-Q1-K1-C7

<400> 18016

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ccaaactcga atcgtgtatg gtggtagctc ctaaaccctt cggcgggcag ttaacccccca 120

atcattgatc cctcaccagc ttggggggcg tttcgctccg gttcttgccg ttcgggtcca 180

ggccatggag cagcggaggt ggctcgcagt agccgttttg atgtgcctgc tgggtgctttg 240

ctccgggaga gaactgaaga ccaaacacgt gcccatatat gaccacagtgc tggcccgagc 300

acttgctgaa tatacttctg ctgtctatac tgctgacctt acccaactgt ttacatggac 360

atgtganaga tggtgtgact taacagaggg gttcaggtga tag 403

<210> 18017

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-028-Q1-K1-C8

<400> 18017

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ttacaagagc tcgtacaatc ttcccatgac ttgggtcatga tcaccggaga ccaagcgttg 120
actgcctgtc atgttgctag ccaagtacat atatcttcca aacctgtttt gatcttgaca 180
cggataaaga ctggcggttt tgagtgggtt tcgccagatg aaactgatag agtccatat 240
agtgcgtggg acgttgcagt gttatcagaa tctcatgacc tttgtattaa tggggactgt 300
tttgaaatgc taaaagtag tgaagctgtt ctccaggta tcccttatgt aaagttttt 360
tcacgtgttg ctccagaaca aanagaactt gtactaacta cattcaaaa 409

<210> 18018

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D1

<400> 18018

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gtttgagcga gttatcaagg gagaggacat ctgttaagag attgaagaag tcgacactga 120
tgagcattac cagctaaagg ccttcatagg cattatcgat atcgtgctaa aacaggagcc 180
ttgagcctgg atgcacatga tgacgttaac cacatgccga cggacttttc tgtagttgga 240
aaatctatct 250

<210> 18019

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D10

<400> 18019

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tggctccttt ggtcagcgcg ctccacaccg tgcattccaca agggattctt ccccggtccg 120

<223> Clone ID: LIB3062-028-Q1-K1-D2

<400> 18022

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aggactctga cgaagatgaa ttggaagata aacacctgct tccgactact tctgttggtg 120
aagacacaat tgtaaaagaa attcacagat gaatttctgg tgaagccttg cagtgatttc 180
tctatgtatt ctaaaatcta atgggtttca atactcattg tgcagcttgt cgttcattat 240
gtatattgtc attgtatttt aaaatgtcat gtgctctttc tgttggtgctc tgaaattttg 300
tgtacatttg gtgggtagtc tgtatttatg gttgagttca tttcacttgg tgaatgattg 360
aataggtgga tgaatgagag acaataaaaa ttcttatgta gaagcact 408

<210> 18023

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D4

<400> 18023

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cccaacgtca gtgctgcggg tggtaggcat gcgggctctc gcgcgctcct ttgcacccca 120
tcaagccaag gtctcacttt cctactccca tcgcgctcga gtctcgtaat gctgtgcccc 180
ctcgcaggct tcaaatccct gacgattcat ccattccatt cattccatac agcacactca 240
cagcaaaacg ttcttttacc ctc 263

<210> 18024

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D5

<400> 18024

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tcctgtcaaa aggaagatcg agaagaagag ggagaagggt ctttatcatg agagtgtact 120
gaagcggaat ccgtttgtgc agccaatccc atcttatgtg ccgggcaaga aggataagaa 180

gatacagaat gcagaaattg cacgagacac aggtacgaga aaggtgttcc tatggaaaat 240
 gaatctgtag tatagaactt tgacatctga tctg 274

<210> 18025
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-028-Q1-K1-D6
 <400> 18025

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 gtggctcgcg ctgcgcccg ccgcactgac gctcgcccag gctaagaagg acctgacgga 180
 ggttacccac aaggtctact tcgacatcga gatcgacggc aagcccgcag gccggattgt 240
 catggggctt tttgggaaga ctgttcctaa gacggcagag aacttccgag ctctttgcac 300
 aggagagaaa ggggttgga agagtggcaa agccctgcac tacaaggga gtaagttcca 360
 cagaatcatc cccagcttca tgc 383

<210> 18026
 <211> 220
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-028-Q1-K1-D7
 <400> 18026

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 actccggagg aggtggaggc ggcngcngcn gtggcgccgg cggtggaagc agaagcggag 180
 tggctaaatg cactgtgat tgctcacacc atgatcattc 220

<210> 18027
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D8

<400> 18027

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ccatggcatg cgtcagcacc ttccagagct gccccattgc cagaagagca aagatcaaca 120
cgagggtccag gggctgcagc agtagcgtgg cgaaggggtc atcaccacca gccttccagt 180
tccagtgcag ggcgtcgact ttcgcggcgg acaccagcct ccggctcgag ctggacgaga 240
accccgaggc gatcatctcg ggggcgtggc ccgggaactg ctccctcctc agctacgacg 300
acctccgcgc ctaccttgag tcgcaggaga cggcggccca ggcagactgt cagcagcgcg 360
gcgtggcgct cctgagcgag accattgtca cacc 394

<210> 18028

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E1

<400> 18028

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agttcgggca tggagggcca gttccaggat ggcaaggagg aggtcatcca agcatggtac 120
atggatgaca gtgaagagga ccagaggctt cctcatcctc gcgagcccaa agaattcatt 180
cctctcgaca aactttccga actaggaata ttaagctggc gcctaaatgc tgatgattgg 240
gagaatgatg agaacctcaa gaaaattcgt gaagccaggg gttactctta catggacatt 300
tgtgatgtgt gccagagaa gttgccaaat tacgaggctt aagataagaa tttcttttga 360
gaacacttgc atactgatga agagata 387

<210> 18029

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E10

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ctatctcacg cgggaggaag ctgccatcat ctccgaccat aaccaccacc acttcttcaa 120
ccaccacatc aatgacctgc atcataccgc cgtccagctc ctctactc 168

<210> 18030
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E11

<400> 18030

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aacttaaaaa agttggtgat cctattgagc tgcgcttcaa ggaatgggag attagaagtt 180
ctgctgtag ccaactggta tactgcatca atagcttcag agaagctgca cagtctaccg 240
accagaagtt tgaacacata gacatgtcag aaaagcgaaa ggtcattaat gagtgttcgg 300
aaacagagac ttggctatag agaaaagcag cagcaggatg ct 342

<210> 18031
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E3

<400> 18031

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gatcgagtg ttgcttgggc ggcgcatttc gggcggagac accacactgc tacactgagg 120
cctgagccat ggccactgac accaaagcgg 150

<210> 18032
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-C10

<400> 18032

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ttgtccacct actcggacaa ccagcccggg gtcctgatcc aggtctacga gggtagagagg 120
 acccggacac gcgacaacaa cctgctgggc aagtctgagc tctccggcat cccccctgca 180
 ccccggtggtg tgccacagat caccgtgtgc tttgacatcg acgccaacgg cattctgaac 240
 gtgt 244

<210> 18033
 <211> 312
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-028-Q1-K1-A12
 <400> 18033

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 tttcgtatct tttgacaaat gggtggcgaa acatgccggg ctgaaattta tggcagcatt 180
 gctcaatcta cccccacttt ttgtattttg atatttgaca ttaccaggta tactagagaa 240
 ttaacatact cccggtacat gagacagctg catctgctgt aggtacggtg gttcactaga 300
 cttctgcatt ct 312

<210> 18034
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-028-Q1-K1-A2
 <400> 18034

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 caagggtcct gagttgctta ccatgtgggt tggtgagagc gaagccaacg tccgtgaaat 180
 ttttgacaag gctcgtcaat ctgctccttg tgctctcttc tttgatgagc ttgactcaat 240
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 tcagctactg acagaaatgg atggcatgaa tgccaagaaa actgtgttta ttattggagc 360
 taaaacagg cctgacatca ttgaccctgc tct 393

<210> 18035
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-A3

 <400> 18035

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 attcatgggtg tccaacattt ggaacgggtgc tgtttatgat gtcaatatag gtggactcag 180
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 agaggccgag ttaccgagcc gtgtctcagc agaagcaa atcaaatctt gtatgcagat 360
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<210> 18036
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-A4

 <400> 18036

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 gctgttgctg aaggggtagc cgcacagtt cttcagccac cctttcctga aaaaacagtg 180
 gtgttctctg gggatcacat cgattcgcac ggagcagaag ttgatgtcaa gttccaggat 240
 gaaaggaaca atcagtcaga caaaataagt caaggggttc aagttttaga tgacaacgat 300
 aaccttcaga taataaagaa cagtgacctt gaagaattgc gtgaacttgt ttctggaacc 360
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<210> 18037
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A5

<400> 18037

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gaactgctac catcacacct accaactgct cctcgaaaca tgacgccctc agctgtatcg 180
gccgatgact taatcgacat ccactatgaa gattctgac ttttacattt ccagctatac 240
tatatcctct acatacacct gggacaagac acaattgcaa cggccgtacg cacgatgttt 300
cactagactt ctg 313

<210> 18038

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A6

<400> 18038

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tcgcgccctt caccatctgc atgattggcg ccggcggctt catcggctcc cacctctgcy 180
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tccgccacct cgtcgacccc ggcgcgacgc acctcgcggg gcgcactctc ttccaccgcc 300
tcaacatcaa gaatgactcc aggtctgagg gctcatcaa gatggccgat ctgaccatca 360
acctggcggc tatctgcacg ccggccgact acaacacgcy cccctcgac ac 412

<210> 18039

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A8

<400> 18039

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cagtttgaaa agccacttga tgagcgcgta tgctcctcaa gtaggcctta atgagaactc 120

aaagagagag ttctgggaag gcctggagga catggtagt agtgtgccag ttggcgagaa 180
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tcttgggtgtt accattattg atgaccgagc ttccaatcgc tttcctacac ctctggaggt 300
atcagacaaa gatgacgtag cagtgggtag gattcgtcag gacttgtccc tggatggtaa 360
ccgaggggtt gacatatttg tgtgtggtga tca 393

<210> 18040
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A9

<400> 18040

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cagccgttca aaatgtgagg acaagagatg ggtaccaagg aatggaacat caaaatcttc 120
gtccagtgtt cgagatgaga agagccaaga gtctccggct agtgctaata ggagtggaca 180
tggtcataga tcttcatttg agcaaaaccg tgcttcgcca gctattccga gcaaagtttc 240
acatgcagct tcaaggatat cctctcaagc atcacctcag cccccgaagg ttgaaacacc 300
agttccaaag gtgggttttac cttcttaatc acaaaaattc cc 342

<210> 18041
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-B1

<400> 18041

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ggaggggagt ttgcatcagc ggcactgacc aaggagggtg cggattatgc cacacgcaaa 120
ccgcttgatt gttgcttcgt aaaggccaag gagcgggtgc ttgaaaccga cggcaactgt 180
catgata 187

<210> 18042
<211> 398
<212> DNA

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<213>      Zea mays

<223>      unsure at all n locations
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<400>      18042

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ttggccggaa gccatggatg gagactgatt tgctgttagt tgctgctcca tgtccaccat 180
ctccttggtt tgctgttggt ctcttcttga cgtgggtccca cgacgcgagc cctgggctgggt 240
gcttcggcct tctgtcagtt gaggcctatg ctgcttctgc aggtccttct tacaccctgc 300
aacactaccg tttgggtgtgc tgacatggaa attgggggcag caggacagct aggtgtgttg 360
gggacgcctt taggaaatcg agtcacacta gatgctga                               398

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<210>      18043
<211>      394
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3062-028-Q1-K1-B12

<400>      18043
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 agctactgga tgagctgggc atcccagcag aagatgcccc agttgaccaa ttcacccctc 180
 tgggccgaat gctttacaag gcaccatctg atgggaaatg gggggagcat gagctcgact 240
 acctgctgtt catcgccgg gacgtgaagg tgcaaccgaa cccagatgaa gtcgctgatg 300
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 atggggtgaa gatctcccc tggt 384

<210> 18045
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-028-Q1-K1-B4
 <400> 18045

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 cgctgaggct gacatcatct tcgtctcggg gaacaccccc accaagacct gtgggcttgg 180
 agctggcaag gctgccgacc tcacctactg ggagagcgt gctcgtatga tcgccgatgt 240
 ctccaagtct gacaagatcg ttgtcgagaa gtccaccgtc cctgtcaaga ccgctgaggc 300
 tattgagaag atcttgaccc acaacagcaa gggcattaac taccagatcc tttgcgaccc 360
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<210> 18046
 <211> 116
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-028-Q1-K1-B5
 <400> 18046

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<210> 18047
 <211> 139
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-B6

 <400> 18047

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 tttacatctg gtcgaattgc ccatcttata cacaatatca tctttactaa acttgatatt 120
 actcctcatg aacttcctc 139

<210> 18048
 <211> 117
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-B7

 <400> 18048

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<210> 18049
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-B8

 <400> 18049

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 cttcggcgag gcccgcgta cgatgcgcaa gacggcggcg aaggccaagc cggcggcggc 180
 gtccgggagc ccgtggtacg gccccgaccg cgtgctgtac ctgggcccac tgtccggcga 240
 gccgccgagc tacctgacgg gcgagttccc gggcgactac ggctgggaca ccgcggggct 300
 gtcggcggac ccggagacgt tcgccaagaa ccgggagctg gaggtgatcc actcccgtg 360
 ggccatgctg ggcgcgctc 379

<210> 18050
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 18050

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gcctatgatt gatttctgtt cacataaact aggtggatca tatttacaag cacatgaact 180
cctggatact gctaatactt ttctcaaggc gaagatggag gctgtattgt ctgagacang 240
atcacagcat gcagcttcca tgactgagnt taactggcta ggtcgaactt ttcctattac 300
aatgcatag acccgtgtct ctattttgaa agcccatcag cttgagagag acttgagtgc 360
tgcagccaca gaatcagttg ctgctgacaa aaagcttgct atattggata aaatattt 418

<210> 18051
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-C1

<400> 18051

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ctgcacgatg actcctatgt tacggccaag tagcagatga ttaactacta cggcatcttg 180
acttacactc tcctttcagc gtactacatg taaaacagct accctcactt ccataaacgg 240
acagagtacc actatcatga catcctgaac attgaattgc catattgatc taatggctag 300
attgtgacga atgaccacc 319

<210> 18052
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A11

<400> 18052

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ccacttattc aaccaccaca agaaggacta ggagcagccc gccggcgagt actggtactc 120

cgagaccgat gtggtcaccg ccaccggcga gggcgagtag tagaggtaca agaaggaaga 180

gaaggatcac aagcacaagc agcacctcga ccaggccgtc gccatcgccg ccggcgccctt 240

cgactctac gagaagcacg atgcgaaaaa tgaccccgag cacgcgcaca ggcacaagat 300

cacggatgag gtcgcttccg cggctgccgt cggcgccctgc ggctacgtat tccacgagca 360

cca 363

<210> 18053

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-027-Q1-K1-G5

<400> 18053

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acctcccggg cttccggttc catcccaccg aggaggagct cctcgggttc tacctctccc 180

gcgtgggtcca cggcaagcag ctccacttcg acatcatcgg cagcctcaac atctaccgct 240

gcctcccaag gaggacatgg tgatctgcaa gatctacagg aaggccacgc cactgaagga 300

gctcgagcag agggcctctg ccatggagga gatgcagacg cgcacggcg gggctagagc 360

aacatccctg gtccaggccg nccgctccac cggcgacgac tacctgtcgt ccgacgacac 420

aagc 424

<210> 18054

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-027-Q1-K1-G6

<400> 18054

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 ttcnngnaca tcaatcgga ctgcaccctc aacaccactc agaggctcta tggtttcgcg 180
 atatgcttgg ctgccggact gacgtgcaca ttcttgtcaa tgcttgtctt cttcaatcca 240
 gtgaaatttg gggtagcatt cacccttggc aatttgatgg cccttggaag tacagcattt 300
 ctcataggcc caaaagaca gtttgatatg atgcttgatt ctgtgcgaat atatgccact 360
 gctatatata ttgcaagcat cataattgct ctattctgtg ctatctacgt tcgcagcaag 420
 ctgctgactc tag 433

<210> 18055
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-027-Q1-K1-G7
 <400> 18055

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 atgactggga tattctgaag aaaacgactc aagtgaagca ttcaacggct ctgatccaag 180
 gcatgcatcc gccgatcaag atcaaagctc gatgctcaac gtcatttact aaccagaagg 240
 atcgtttcca tgcacatctg cgctaaactg acgacgaact gacgagacta ctagataagc 300
 atcagatgct gactagtga ctggaaaaaa ctatagctga tgatgcgcaa cttgttcgaa 360
 agattcaatc ttatcaaaac tataacc 387

<210> 18056
 <211> 241
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-027-Q1-K1-G8
 <400> 18056

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 agaacggtag gggggagatc acatgcaccc cgctcaacc c aacctcctac cttttccgac 120

aaggctacgc aaagcgaggc ttgcccgtg taccactgca tgctgctgct gaagacaatc 180
 ggcaaccagt gacgtcctat ctgaactggg gactcaaagt gcgcgcatcg catgccaaacc 240
 c 241

<210> 18057
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-027-Q1-K1-G9
 <400> 18057

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 ggacgaggag gagggatgag tctattcggg cttggacgaa accagaagac attccgcccc 180
 aagaagagcg ctccatcagg tagcaaggga gcacagctcc gaaagcacat agatgccact 240
 ctcggcagtg gaaaccttag ggaagctgtg aggttgcttc ctggagagga tatcaatgaa 300
 tggctcgcgg ggaataactgt ggattacttt aaccaagtta atatgctgaa tggaacactc 360
 acagaatttt gaacacct 378

<210> 18058
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-027-Q1-K1-H1
 <400> 18058

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 gcggcgggcg ggagatggca gcggcgctgc tgctgctggc ggcgggggcc gggacggcgt 180
 cggcgggcgg gagctgcggc gaggtgacgt cgtcgggtggc gccgtgcctc gggtagcgga 240
 tgggcagcgc ggcgtcgccc tccgcggcgt gctgcagcgg ggtgcgctcg ctcaacagcc 300
 gcgcgtcgtc ggcgggcgac cggcaggcca cctgcaactg cctcaagagc atgacggggc 360
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ccgtcggcgt gcccatc

437

<210> 18059

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-027-Q1-K1-H11

<400> 18059

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agcggcgctg ctgctgctgg cggcggaggc cgggacggcg tccgcggcgg tgagctgcgg 180

cgaggtgacg tcgtcggtag cgcgcgcct cgggtacgcg atgggcagcg cggcgctgcc 240

ctccgcggcg tgctgcagcg gggtagcctc gctcaacagc cgcgcgtcgt cagcggccga 300

ccggcaggcc acctgcaact gcctcaagag catgacgggc cggctcggcg gcggcgtcag 360

catggccaac gccgncaaca tccccggcaa gtg 393

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<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-H12

<400> 18060

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gccgggatgt tggcaggcgg catcaaggac gtgccggcga acgagaacga cctccagctc 180

caggagctcg cgcgcttcgc cgtcaatgag cacaacaaa aggccaatgc tcttctgggg 240

ttcgagaagc ttgtgaaggc caagacacaa gttgttgctg gcacgatgta ctatctcact 300

attgaagtga aggatggcgt agtcaagaag ctttatgaag ctaaggctctg ggagaagcca 360

tgggagaact tcaagcatct gcaggaattc aagcctgttg aaaagggtgc tatcgcctaa 420

ggatctgtcg tctccctgtg ca 442

<210> 18061
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-H2

 <400> 18061

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 cttgacagtc gccttcctga tgttcccagc gccatacggg gacgcctccg caccggcgat 180
 gctgaataca gtcgacttcg tggctctctaa cgtggacgac ctcatgaact ggccgcgtaa 240
 ggtctcgatc tggcccatga cctatcggtt cgctgcttc acgatgcaga tgatgcacgc 300
 cg 302

<210> 18062
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-H3

 <400> 18062

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 ggtgttcgtg ccgatggccg tggccctggg tatctgctcg taccagcttg tgcgcaacat 180
 cacgggcaac cacgaggtgc gggtgaccaa ggagaagatg gcggacggcg tcctggacaa 240
 ccacgactag ggcgagaggt acgccatgca ctgcctcagg aagtctgtcc gcgggaagaa 300
 gccctagatc atggctttca tcaacttctt ctctcgtcgac ccttccaagg acgattaagc 360
 tagattccgt catggatgga tgagtatgtt ttaccaatca ttagctgccg gtggcgcg 418

<210> 18063
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-H4

<400> 18063

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 aagcggcagc ggcagcaciaa gctggtgcat ctgtagtaca aatgtttgtg ggccgattgc 180
 gggactgggc aaggcatcac tctggtgacc cagagataga tgaagctttg aagaatggag 240
 aagatgctgg gctttctttg gcgaagaaag tatatgccta tattcacagg aatgggtaca 300
 aaacaaagct gatggccgct gccataccga acaagcagga cgtattta 348

<210> 18064
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-H6

<400> 18064

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 actttaaaaca ggaactatca aatgcctcca cggagctcat caacaggctg accccagacc 240
 atgctaggcg gcatcttggg ctcactttat tgcccaccac tggaccatat gcgaaggctc 300
 tatggtgttt aaaccttgct cgttctgatt ctctgttgtg ccataggcat tgcaagggtg 360
 agaattctga 369

<210> 18065
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-H7

<400> 18065

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 tcccttacgc cggcgcggaat gctgcaggag gcacggtgct ggaccagaag gtgtgggtcc 180

gcccgtcga ggacgtcgag aagccgcccc ccgccgctg agccgcgcgg cgctgctagc 240
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ctcgtgctcg gctgggctgg actccctgct tatatcacta caatattata ctactagtag 360
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tcagtcgta 429

<210> 18066
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-H9

<400> 18066

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taaacadaga taatgccgaa cactactgca tacgcgtaga cggactcaga tcaactctacg 180
cttgggtgcgg tacaaagttt actgtcacag cattcgatca cgatgacgac atcatcatgc 240
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<210> 18067
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A1

<400> 18067

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atctcaaacy gttctccaaa caagacgcac ttaaatttac tgaatcacao cttaatctac 120
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<210> 18068
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A10

<400> 18068

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 cgttggccgg aagccatgga tggagactga tttgctgtta attgcttcta catgtccacc 180
 atcttcttgg ttcgctagag atctcttctt gacgtggtac cacgactcga gccctggctg 240
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<210> 18069

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G3

<400> 18069

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 cttgaatgac tgggatattg cagagaaatc ggctcaagtg aagcatccga gggctctgat 180
 ccaaggcatg catcggcaga tcaagatcaa agttcgatgc tcaaggatcat ttgcaaccag 240
 agggatcggt tccgtgcacg tctgctgaa actgaggagg aactgaagag actaaaagag 300
 aagcatgaga tgctgactga tgaactggaa aaaactaaat ctgataatgt gcaactgtat 360
 agaaagattc gatatgttca agactataac cacgacaaga ttgcttcac gggaccagac 420
 aagtacgcat aagatattga aagt 444

<210> 18070

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E9

<400> 18070

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 agggccttta cctctatggt ggtgttggtta cagggaagac gatgcttatg gacttggtct 180

atgaacagct gccatctaatt tggagaaaaa aacgtattca ctttcatgat ttcattgttg 240
acgtacatag tcgtcttcag atgcataaag gtgtttcaga tccccttgat gttgtagcag 300
ctgagatttc agatgaggcc atcatattat gtcttgatga gtttatggta actgatgttg 360
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<210> 18071

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F1

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cgttttac 68

<210> 18072

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F11

<400> 18072

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gtgtccacca gatctagtga acgctgggta cttgactcaa ggtgttcaag aaatttaagc 180

cacacactct tcatcatatg cccaggcaat atttgtgtta atctcaggga cctccagtag 240

attgctgaga gttatccttg atacagggga atatagacac agaatttttt gaacattgat 300

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acact 365

<210> 18073

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F12

<400> 18073

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gtggcaagga ttcttgagct ctgcattcta catattgcta tggctgagat ggcataaaaa 180

ggaacacccc acaaagttgt cattaatgag gcagtagatc tggcaaagcg attttgtgat 240

ggtggtgccc ctcgggtaat caacggatgc cttcgaacat ttgtgaagga tcatgttgat 300

gttgcaggca cgagccaaga agctaaatca aaatcatgat tttttgcaaa tactcataca 360

acaaaatggt ggctgaagta aagaagtacg gagagaacct tgctgtcttg agttcaagcg 420

aataccttct gtc 433

<210> 18074

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F2

<400> 18074

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ggatgatcct ggttcgtgag tggaggcagc ggaagctgaa gtggctgcga tgagaacact 180

ctcggtagca ctgatctgtg cggggccaga tcgtggcgct cacgtacttg atactgcatg 240

ccatgtccag aatgatacca tgacacggct tgcagatcct ggatcattac cggaagaacg 300

atcacagccc gacatgcaac ctaggcactt gaaaagacgc aaagcgcata cggttagaga 360

aatctatgt 369

<210> 18075

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F3

<400> 18075

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cgcgccgctc ctctggcggg gactcagctt ccccgctcgc acccctcate ccacttegcc 120
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 cggcgcggcg cggttcatcc gccgcacggg gagccggcgc ctgatgaggg agccctccgt 240
 ggcggtgcgg gagacggccg ccgagcacct cgaggagcgc cagaccgact gggcctactc 300
 gaagcccgtc gtcgtgctcg acatgctctg gaacctcgcc ttcgtcgccg tcgccggggc 360
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<210> 18076

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F4

<400> 18076

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 acctgcactg aatgccatct tatctataat cttacggaca tctatagcgc aggatatctg 120
 ttgctgctga ttatgtattc aagtgtttct gcgagagaaa tcctaattggc caggcattat 180
 tagcatcaac tattgctcca catccaaacc aaggagatat tgatgaacct gctagtgaca 240
 tgccttttgg aagtgtactt ctgcaagctc tggattctag atactggtgc gtttgcaccg 300
 aggtcacact ctgatgcttg tctaatecat tgactaggcg atttaccacc ttttgccggc 360
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<210> 18077

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F6

<400> 18077

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 cgttgctgct gattatgtat tcacgtgttt ctgcgagaga aatcctaatt gccaggcatt 180
 attagcatca actattgctc cacatccaaa ccaaggagat attcatgaac ctgctagtga 240

catgcctttt ggaagtgtac ttctgcaagc tctggattct agatactggg gcgtttagca 300
 ccgagggtcac actcttatgc ttgtctaata aattgactat gtgatatacc accttttgcc 360
 ggtttcatga ttaaaaaaca ttttttttaa ttatttacct ttttattatc gtttaaataca 420
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<210> 18078

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F7

<400> 18078

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 agaaaaaggt agggatgtgc atctccaata atgcaatatg tcacataacg aaggaaacaa 120
 tgattatata actacttgta tgctagtttc agacactcat gtatttagac atctgcaata 180
 atgcaatatg tcacataact tgattttata ttttggtcat gaggtagggt gcacttggtc 240
 aaatggggtt ttgtattaac aaatgatatg gtttcagatg attactcttg gaggttcttc 300
 tgaactggac ttgttgatta catggcccat tttcagaagg tggtgttttc agtgtgaggc 360
 ctacaaagaa aagttggaaa aacatttcca atatattctg tggtgagaaa gtatgttcca 420
 tccatgt 427

<210> 18079

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F8

<400> 18079

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 tatctgttgc tgctgattat gtattcaagt gtttctgcga gagaaatcct aatggccagg 180
 cattattagc atcaactatt gcttcacatc caaccaagg agatattcat gaacctgcta 240
 gtgacatgcc ttttggaagt gtacttttgc aagctctgga ttctagatac tgggtgcgttt 300

gcaccgatgt cacactctga tgcttgtcta atcaaaagac taagtgattt accacctttt 360

gccggtttca tgatt 375

<210> 18080

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F9

<400> 18080

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acttcattca gactatagct atgtacgata ctaactagtt catgttagaa ttacatgcaa 180

tctctaattt ctctattatc aaacacttgc cagagctggt gaactaagga tacctcgatg 240

atgctagaat ggctcgatacc acgatccaca tcgatgataa ccagtacacc tgtgaactc 299

<210> 18081

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G1

<400> 18081

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tcggtttcgt gggtgagcgg atcgagatgg cggcgtcgga tggtgagtac cagcatgctt 120

cgtcggcggc ctgcctggg ccacggacga cactccctc cacaacgct tcagcaccta 180

cggcgaggtc ctcgagtcca agatcctcct cgatcgggag acgcagaggt cccgcggctt 240

cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg 300

caaggagctg gacggccgca acatcacctg caacgaggcc cagtcgccg gcggccgtgg 360

aggcggcggc agcggcaggt acggtggtgg ccgtggaggc ggcggctacg gcagtggcgg 420

<210> 18082

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G10

<400> 18082

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cctaaagcaa catcagatcc acccggtcc atgtacactc tccagtctcc accaatgcta 120
acctctcacc agatcgatgc agggctatca gacgactaat attatcgaaa gtcacatcc 180
tatgagccaa agactaaacc ttggcggtc aatggtcaga cagacaacat caagtgttc 240
cgcagctgcc ccacagacaa ggatcgacat gtttatctcc ggagactctc cgaatagcgc 300
gtctgatttg agcttaccta atgtccacag cgagcttagc tctagcaact gcaactttga 360
cagcctctc aactccataa tcaaagtgtg aaagagacga tgcttacttc agcgatgacc 420
tgggatg 427

<210> 18083

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G11

<400> 18083

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aaggagaagg tggtgaaatt gtgtttggtg gaatggattc tagtcactac aagggtgatc 300
acacctatgt ccagtcact cagaaggat actggcagtt taacatgggt gatgtcctgg 360
ttgatggaaa gtccactggg ttttgtgctg gtggtgtgc agcaatagca gattc 415

<210> 18084

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G12

<400> 18084

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aatgcccga aagcaaattc atgtcgtagg aaaacaaagg atctctcggc aggtctgcaa 240
cctaagaaaa tcagtgtctg tgactcaagc cccagagaca aatctccatt cattttacaa 300
cagagtggca aggtcgtcca aaagaaacac cccgatcaat tgtcagaatc atcagaagat 360
gagcttgctg gtagaagaac aaagcatcaa actgattcac ctgatgattc tcgtcgaaaa 420
cagcattccc c 431

<210> 18087

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D4

<400> 18087

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cagacaccag caacgaagtc ctcgagaatg cctacgtctg ctactgctag atcctcgact 180
ccaatgtaat aaaccgaccg cgagacgggtg aggtcttacg gcttcggctt cgttaccttc 240
tactacgaga actacatgct agacgctatc gagaacatga acggcaacga tctc 294

<210> 18088

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D5

<400> 18088

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caccgaccc gacaaggccc gtcgtctcgg ctacaaggcc aagcagggat atgttgatcat 120
accgtgtccg tgtgaagcgt ggtggcagga agaggcctgt gcccaaggggt attgtctatg 180
gcaagcccaa gcaccaggggt atcaccagc tcaagttcca gaggaacaag atgtctgtcg 240
ctgaggagag agctggacgt aagctcgggtg gactgagggt tcttaactcc tactgggcga 300
atgaggatag tacctacaag tactttgaga tcatccttgt ggacgttgcc cacaagcca 360

tcaaaaccga cccgaggatc aactggctat gcaaccctgt gcacaagcac cgtgagc 417

<210> 18089
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D6

<400> 18089

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aaagtcatca cctaccgagg aaccaaagc tattgcggat tatgctgctt tgcctgatcc 120
gactgaaact acatgctcga cgctatagag aacatgaaca gcaaggacct agactgccgt 180
agcattactc ttaactatga cccaaccatt ggctgt 216

<210> 18090
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D7

<400> 18090

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agtggacccc acgcacgcgc gcgctaccgc cgccattacc gtcttgccgc cacggcgcca 120
cggacgcgc ggtggccgcc gccgcgcgc cgccggcgtc cgcgagcgc gccgacgacg 180
acgacgtctg ggacgagctg cgcgcggagg cgcaggccga cgcggacgcc gagcctctgc 240
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cgcacctgtc ggccaagctc tgcgtccccg gcgcgctgcc gcaggacgcg ctccgggacc 360
tactggccgc cgcgctggcc gcgcgcccg agtcgggccg cgccgcgcgc gc 412

<210> 18091
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D8

<400> 18091

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 aagaagactc tgagcaccga ctccaccggt ggctccacg tgcgccgctt ctgcgagaag 180
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 ggcgctgctg agttcaacgc ggagacattc gggttcgcca aggtcgtcca gttcgaggag 360
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<210> 18092

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D9

<400> 18092

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 aggtacaagg ggcaaaggaa aattgcacat cctggtttcc aaaaccctcg atggggttgat 180
 ggagagcttt tgataataga tggaaagtcc atcagagatg gtcctgtgat agctttcttt 240
 tactggacat ctaattttca tcgttttagaa ttcttttagac tgttgatgct tcctgaatag 300
 tccacatcta aaaatagtta aaggccattc tgattattgc ataactgcat tcggagtcaa 360
 caggagttagc ctggcatcac attttccgat gacagattct tatg 404

<210> 18093

<211> 425

<212> DNA

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<400> 18093

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ccctgagtag cttccgtttg acctctgtgg gacgcatgat taccgcaca atgggtcaagg 240
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 aggctgcaga agggctggta gagggcggaa agaaggagat cttcacgcca atgtacttct 360
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<210> 18094

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E10

<400> 18094

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 tggagcctag catgtctggc ccaaagaggc ctcatgatcg tgtccctttg aaggaaatga 180
 aatcagattg gcatgcttgc ctggacaaca aagttgggtt caagggtttt gcagtgccaa 240
 aggagcagca ggataagggt gtcaaatttg actttcatgg gcagccagca gaaatcaagc 300
 atggtagtgt tggttatagca gcaataacta gctgcacaaa cacctcaaata cctagtgtta 360
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<210> 18095

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E11

<400> 18095

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 cagatccagc agatgggtgc gttcatccgc caggaggccg acgagaaggc caacgagatc 180
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gagtactcta tgcagttgaa tgcttctcgc atcaaagttc ttcaagctca ggatgatcta 360
 gtaaacaaaa tgaaagacga tgcgatg 387

<210> 18096
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-027-Q1-K1-E12
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 cgcattggcag gcattcccag gaagatgtcg gtgacgctgt ccgtaaggc cgagctgatg 180
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<210> 18097
 <211> 239
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-027-Q1-K1-E2
 <400> 18097

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 gacactttgc ttaatatcct cccttgacat tcacgtcgcc ctcagatcct agcattatct 180
 cctttatgac atggcatgtg agatgaacga cgaatatgat tacgaactgc taaaattgt 239

<210> 18098
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-027-Q1-K1-E3

<400> 18098

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ggcgcgctgg caagacagac tacagggcca ggataaggct gattaaccaa gacaaaaaca 180

agtacaatac acccaaatac agatttggtg tgcgatttac caacaaggac atcacagcac 240

aaatcatctc tgctagtata gcaggtgata tggttcttgc ttctgcttac tcgcatgagt 300

tgccacgata tgggtcttgaa gttgggtctga ccaactatgc agctgcctac tgcactggcc 360

ttctgttggc tcgccgtgtg ctcaagacct gtgggtttaga taaggaatat gagggcaatg 420

<210> 18099

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E4

<400> 18099

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caagaactca ggcaaacctt taatacgagt cagggcagca cagatacaag tggagatgag 180

gaacacagtc gtgctagaga aaatgcccg aaagcaaatt catgtcgtag gaaaacaaag 240

gatctctcgg caggtctgca acctaagaaa atcagtgtcg gtgactcaag cccagagac 300

aaatctccat tcattttaca acagagtggc aaggctgtcc aaaagaaaca cccgatcaa 360

ttgtcagaat catcagaaga tgagcttgct ggtagaagaa caaagcatca aactgattca 420

cctgatgatt ctgctgaaa acagattcc ccgact 456

<210> 18100

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E5

<400> 18100

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cttgtgccat ttaccaacaa cgacatcaca actcaaatca tctctactaa tataacaagt 240
catattcttc ttgcttctgc ttactcgcat taatttcac gatattatct ttaaacttgt 300
cttaccaact atgcaactta ctactacact ggccttctc 339

<210> 18101
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-027-Q1-K1-E6

<400> 18101

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gcaacggctg cggatatggtg aacctgacgt ggagaccgcc gccaccagca gcgtcaagac 180
cacggtcctc gacgcgccga ccaccaaggc cagcgccggc ggcttcgagg cggccaccga 240
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gaggaggcgt ataataaata taatagcggc gttcagtana taagatcctg tcaactgcac 420
ccgtcattat ccatgg 436

<210> 18102
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-027-Q1-K1-E7

<400> 18102

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agaaagcgcg cttgcaagac atactacagg gccaggataa agcttattaa ccaagacaaa 180

tacaagtaca atacacccaa attcagattt gttgtgcat taaccaccaa tgccttcaca 240
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gatttgccac gatatgggtc ttgaagttgg tctgaccaac tatgcaactg cctactgcac 360
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caatg 425

<210> 18103

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D3

<400> 18103

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tcatggtgga gcttgtctg ctcgacctac tccttccgct gccagactg gaccaggtgg 240
gctacaaccg gtcgacggct ttcgtgtcac tgcgagcagg ccgtcgctg acccacacct 300
tcggatacat cggcaagcaa gtgtggtacg acaggaggt tacggacttt gatgaacctg 360
agctgatgca cagc 374

<210> 18104

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C11

<400> 18104

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gggggctgctc aatcccgtaa cgcgacacca tgacggagtg cattacaatc cacatcagcc 120
aggccggtat ccaggctcga aacgcgtgct gggagctgca ctgccttgag catggcattc 180
aagctgacgg tcagatgccc ggtgacaaga ccattggggg aggtgatgat gctttcaaca 240
ccttcttcag tgagactggg gctcggaagc acgtgccccg tgctgtttat gctgaccttg 300

aaccactgt catcgatgag gtgagaactg gcacctaccg ccagctatta caccctgagc 360
agctcatcag tgggaaggag gatgcagcca acaactttgc ccgtgggtcac tacac 415

<210> 18105
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C3

<400> 18105

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acgacggctc cagcaccggc caggcccccg gcgaggacag cgaggtcac ctgtacccgc 120
caggccatct tcaaggaccc attcaggagg ggcaacaaca tccttgatcat gtgcgattgc 180
tacacccag ctggcgagcc aattcccacc aacaagaggt acagcgccgc caagatcttc 240
agcagccttg aggtcgctgc cgaggagccc tggatggta tcgagcagga gtacaccctc 300
cttcagaagg acaccaactg gcccctcggg tggcctattg ggggcttccc tggccctcag 360
ggtccttact actgtggaat cggcgcgagg aaatcgttcg ggcgtgacat 410

<210> 18106
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C4

<400> 18106

gaattccac cggcacctac gcacccctga ccactgttta acttcatttt atttccgcac 60
tatatctccc tagatcaggc tgggaccatc tacatactac atggcaacta aaccaattat 120
tgactatcca gccatttatg aattaagaac aacaaaaacg tattccaaaa aagcaaatct 180
atgcacacgg atgagctgac tctgaccta actcaagttc acgagcaata tctcttaaat 240
gtgcataggc atctgtataa gatccacaat gtccgtaacg ctttaaacgc taactgacat 300
tctaacattc acgaaatgta caaggatct 329

<210> 18107
<211> 327
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C5

<400> 18107

ctcttcttca cctcactaac accagctagc aactctttct ctcttgcaat aatggccgct 60

cgctcctcct cgtcccagcc gcagctggtc gcggcgccgg cggtcctggc agcggcgctg 120

ctgctgctag ggctgcgggg gccgggacgg cgtcggcggc ggtgagctgc ggcgaggtga 180

cgtcgtcggt ggcgccgtgc ctcggttacg cgatgggcag cgcggcgtcg ccctccgcgg 240

cgtgctgcag cgggggtgcgc tcgctcaaca gccgcgcgtc gtcggcggcg gaccggcagg 300

ccacctgcaa ctgcctcaag agcatga 327

<210> 18108

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C6

<400> 18108

cgtgccgtcg tgctccctga cgacgcgtcc attctcaagt acatccgctt ctaccggggc 60

ttgctgctcg tactcaacaa ggcgctcgcc gacgacgacc gcgtcaagac ctgcacatct 120

ccaatcgtca gcaactacat ctctttctaa ccacgcaaat cgctacacac atgatgagct 180

cactcttgtc caaaaactaa tagccgaggg acatctttca gaagtccaga gccaaactata 240

gatgatccag actggcctta actatccaaa ggctatcgga catg 284

<210> 18109

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C7

<400> 18109

ggaacaaaaa ggaagggcga ggaggacagg gagccgagcg caagagctga ggctggggccg 60

cgaaacccca gacctcgcg cgcctcttcc cctccgcggc gtcgtcctcg cagtccctct 120

ccgatccaag atgtataagc tggggagagg aaaccgcgac aaggtgcagc agttcatgac 180

cattaccggc gccagtgaga aggttgcct tcaggcactg aaagctagtg attggcactt 240
ggaaggagct tttgacttct tctatagcca acctcagggt tctgtggtca atactcggca 300
tcttgaagat attttcaaca gatataaaga acctgatgct gatatgataa tgggtggaagg 360
aatatctcaa ttttgcaatg atctacaagt tgatcctcag gatattgtca tgcttgtcat 420
atcatggc 428

<210> 18110
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C8

<400> 18110

aatatttgtt ccatgtttga ctctatctta ttaccccctt atgttggcag gacaagggct 60
gaaccaccta tttactacat gccaaactaaa ccaattattg acgatccagc cattgttgaa 120
atttaacaag gaaaaggat tccaagaatg gaaatctatg cgcagggatg agctgactcg 180
gttccaaaag caagttgagg agcaatatct ctcaaagtgt gagaggcagc tggagaggat 240
ccagaatgcc cggaacgctc gaaaggcgaa cgggcatgct aacatgcaag aaatggacaa 300
ggagctggac acacacaggg cggagcatgg tccgaagact cggcgagttc ctgaggaggg 360
cggtaatgat gacgacgaat acgcagagga catggctgcg gaagacgaag tgatggatga 420
agttctgggc at 432

<210> 18111
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D1

<400> 18111

ggaacaaaac ggaagggcga ggaggacatg aagccaagcc cgtcacctgc agctgggaca 60
ctaaacagat aagcttggac caaggctttc cctatgctca agatattcaa ggatgccatg 120
tcagctccaa cttgcatcct ctacgactga tgactaccta tgagagccgc cagaagttga 180
tgccagatcc gacgccc aaa cagcagcagc tcctaaagca cgtctagcac actatgaccc 240

cctgtaatga gacctgtgaa cgaccactgg aacctgctaa tgggaagccc aaaacgctcg 300
taccagatgg tgtcacggca gaagttatag cg 332

<210> 18112
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D10

<400> 18112

gcgaaggcga ccctccctcc ttcgctcctt ccgcgccgcc tcccggccgt cgccgccgtg 60
gtgaagtact cgcaggagcc gggcaaccct accaagtcgg ctaaggccat gggcagggat 120
ctgagggtcc acttcaagaa cacaagggag acagcctttg cgcttcgcaa gttgtctttg 180
accaaggcta agcgatacct tgaggatggt attgctcaca agcaggcaat tcccttccgg 240
agatactgtg ggggtgttgg tcgcaccgcg caagctaagt cgcgccactc caatgggcaa 300
ggccgctggc ccgttaaate agccagggtc atcctggatt tgctgaagaa tgctgagagt 360
aacgctgatg tgaaaggctt ggatgtggac aacctctatg tttcacaca 409

<210> 18113
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D11

<400> 18113

tcgaggacgc gtgggcttat tgatagagaa cggaatagag ccatttgtaa caatttttca 60
tggggacgtc cctcaagcac tggaagacaa gtacgggtggc tttttaagcg acaggattgt 120
aaaggattac acagacttcg ctaaagtgtg ctttgagaac ttcggtgaca aggtgaagaa 180
ttggttgacc ttttaacgagc cacagacatt tacaaccttt tcgtacggaa cgggagtttt 240
tgcccctgga cgggtgctcac caagagaaaa atgtgctcaa cctattgcta actcactcac 300
cgaaccatac attgctggcc acaacatcct tcgagccac gctatgactt gtgacctcta 360
caacaagaat tacaaggg 378

<210> 18114

<211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-D12

 <400> 18114

 gacgataccc ctatacccaa agcgatagct ttgaagatag cggaacggca gatctggatg 60
 agggactcgc tctggcagct aactacacag cagcgaatgg ccaccacggc gaccgaagcg 120
 gcccgctcgc gcttctcccc tggttcgcgc gccaaagtgg aagctgtgct gtctattggt 180
 gctcatctaa tcccacaccc aagaaaggct gcaagtggcg gagaagatgc tttctttgcc 240
 aatagcgatg ctggcggagt atttgccatt gcagatgggt tctcgggatg ggcagaaaag 300
 aatgtcaatc cagctctatt ctctcgagag ctcatgagaa acagctctaa tttcctcaat 360
 gatgaggcgg tcagtcatga tcctcagatt cttctcatga aagctcatgc t 411

<210> 18115
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-D2

 <400> 18115

 gggcgtgcgc tgctgggagt acaggtacca gccgtacatc gtccgcctaa gggggggcac 60
 tcgtaccgac aaggcgcgct ctctctgcta caaggccaag cacggatatg atgccttacc 120
 cgcctccggt tgaacttttg tggcatgaac acgcctgtgc tcaaagggtg tgtctatggt 180
 aagcctaadc tccaagggtg caccatctc aagttccata ggaacaatag gtctgtctct 240
 gactatagag ctggacgtaa actctgtcga ctgagcgatc ttaactccta ctgactgaat 300
 gatgatcgca cctacaacta cttagagatc atgctcgtgg acaataccta ctaagtcac 360
 aaagctgacc cgaggatcaa ctgactatac aaccctgt 398

<210> 18116
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-C1

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aaggggatgcc aaaatataat ggctgctgct tctacatcgg aactcctcaa aagaaggatt 240
actttctttg tgctgaaact cctgggtgctg cgaaatcttg ggtatctaca ttacatgcaa 300
ctcagttagt cttacgagct cataaagagg cagtaaattc tttggctggg aatggctctc 360
cagctacatt aggcacagtt gctactgcag ttgctaatgc taatgcaaca gccatggaag 420
ctacc 425

<210> 18119
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-A7

<400> 18119
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gggctacctt ggctcgcccc atgcactccg tgccttctg atgctgtgga ggaaatggcc 120
ctaccattgg ccgctctggg aattttaaga actttcagtg cccgccgggc tattacaatg 180
gtcttgcgtc gttgttcttc aacacaaatg atgacgccat ccgcaatcta ttcagcagtg 240
gcaccgagaa tgagttccac atgtccactc tttttgtgtt cttcactgcg atttactgcc 300
ttggccttgt gacatacggg attgctgttc catctgggtc cttcatccct gttatacttg 360
ctgggggctac gtacggggcg atagtgggga cccttcttgg tccaatttca gaccttgatc 420
ctgga 425

<210> 18120
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-A8

<400> 18120
gcggcgggcgg cggcagcggg tacggaggcc gtggcggtca cacacccggc tactgggag 60
ccggaaccgg cactactgga agagccaccc ggacgccatc atctcgagca tcgggtcggt 120
tcgggcagca ttcttgggtt cctttgcgac ctgtgcaaag gcttttttgg gag 173

<210> 18121
 <211> 139
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-A9

 <400> 18121

 cggaattccc ggcctgacgc cacacatcac taacaccatc tagcacctct aaatatcttg 60
 caataaaggc acgatcgctc ctcctacggc caagggcaca tggtcgcgga agcagacgac 120
 ctggcagcaa cactgctgc 139

<210> 18122
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-B1

 <400> 18122

 acgcgatctg cgacgcgcag cctacgtaca ccgtctcgcg gaagctgacg tcatgccggt 60
 tcggggctga catccggtac cggcggaagc gcgcgcgcgt ctggctcggc accttcgact 120
 agacgccccat accttggccc gctcctacaa cgtgagcact cggaccgtgc gccggcctat 180
 caccaggacc aactttcccg ggct 204

<210> 18123
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-027-Q1-K1-B10

 <400> 18123

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 gtatgggtcat gcagcctgct cctgtttcaa atccatttgg gatgcttcca gcaatgcctc 120
 acatgtccat tggaaatggg ggatcttcac cttcagttca atatggaata tcaagtttgc 180
 cggttgtgga gaagcttctt ccaagtagat cattgtccat ggcgtttcct aggcatttgg 240
 cacagagaag gataaaactg ctgccgagaa aatataatcc aatatctgat ggcaaggttc 300

cattcttttgc tgatgatgaa gaatctccag caacaccaaa agcagacgct ttntttgtcc 360
ctagagagaa cccatagaat ctggtaattc gtccaattga gcagt 405

<210> 18124
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B11

<400> 18124

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atggacacct acggtggctg gggagcccat ggtggtggcg ctttctccg caaggaccca 120
accaaggttg accgcagcgg agcctatgtc gcaaggcagg ctgccaagag catcgtcgcc 180
agcggccttg ctgcgcgcgc catcgtccag gtgtcttacg ccatcggcgt gcccgagcct 240
ctctccgtgt tcgtcgacac gtacggcacc ggcgcgatcc ccgacaagga gatcctcaag 300
attgtcaagg agaacttcga tttcaggcct ggcgatgatca tcatcaacct tgacctcaag 360
aaaggcggca acgggcgct 379

<210> 18125
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B12

<400> 18125

agaattcgct ggaggcgctt ttttcgaagt cggagagtac acctagtacg aaaagggtcaa 60
gctcccacct aggctatgcg tcttgggggg tcttaccttc atgggtaaaa acgagatgcc 120
cgttatcttt ccgtattctg cgtcgcttaa gaaactggac ctgcagtaca ctttcctcac 180
cactgaagat cactgtcagc ttatcgctaa atgccccaac ctaatggttc tcgagggtgag 240
gaatgtgatt ggggatagag gactggaagt tgttgccgat acatgcaaga agctacgaag 300
gctgagaatc gagagggggg acgatgaccc cggccaagaa gagcatggag gaatctctca 360
gata 364

<210> 18126
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B3

<400> 18126

cggacgcgtg ggcggacgcg tggggtttcc gcgtcggcta gtttggacgc atggcggctg 60
ggggagagta gagaccacag cgcgcgaggc gaggagaata agctatgggc gcgccgagtg 120
tcagaaatgg acgtcgggaag aggaggatgc gctccgcgcc ggctgcgca agcacggcgc 180
cggcaaattgg cggaccatcc agaaggaccc cgagttcagc ccggtcctct cctaccgctc 240
caacatcgac ctcaaggaca aatggaggaa tttaagtttc agtgcaagtg gactgggatc 300
aagtaaaactg cgggttccaa agataactgg accctcatct ttcccatcat ctagctcgca 360
gcctctgctt cttccagcgg caaacaatt tactgaaact acac 404

<210> 18127
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B4

<400> 18127

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ttgctgaatt gcatgatact tccctaagaa tggcagctaa aggtgtgatt aagaaaatgt 120
tgtagactgg gaagaatcac gctcgttctt ctataaaagg ctacggagga ggatcgaga 180
agatgttctt gcaaaagaaa taaggcagat agtcggtgat aaatttacgc accaattagc 240
aatggagctc atcaaggaat ggtaccttgc ttctcaggcc acaacaggaa gcactggatg 300
ggatgacgat gatgcttttg ttgctggaa ggacagtcct gaaaactaca aggggcatat 360
ccaaaagctt agggctcaaa aagtgtctca ttgctctct gatcttgctg actccagttc 420
agatctgca 429

<210> 18128
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B5

<400> 18128

cggaattccg caggccagac agttctcgga ctcgtactct cacacttggga gaatccatct 60
cgtgctagat ggaacatctc cgggctggaa taaacttcag accgggtctc acgatgctgg 120
gagtataagc tatgcccgcc actaagcaca attctacgtc gcttgacaaa cttgcactgc 180
accacaatct gcacacgact gattatcact cacagcttat cactacttgc accaacataa 240
cgattctcgt gctaaggtag gtattcatca tctacctaca gtcattcgga gcgactacat 300
ccatgaagct ccaa 314

<210> 18129

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B6

<400> 18129

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cgtcgtcaag gccatcgaga aggttggcac ccgcaacggc tccacctgca aggtggtaca 120
aagttgcgct gactgcggac agttatgcta gatctttctt atctgggttg ttcggacgat 180
ctccctacat catcttgcac tccaaattgc gtccgatcct ttggatctat ttacgctcca 240
attgatctta gagtcatca tagaatggta cttttctttt gaagccacaa caggcagcac 300
tggtatgggat gacgatgatg cttttgttgc ctggaaggac agtcctgaaa actacaaggg 360
gcatatccaa aagcttaagg ctcaaaaagt gtctcattcg ctctctgatac tttgtg 416

<210> 18130

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-027-Q1-K1-B7

<400> 18130

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taattgtcac acagaaccaa tcccccttgt cctgcaggct gtcattgacc accttgtntc 120
ctttggcggt taataccaga aagcaggaaa ccaaatagtg tcgtcatcaa cttcttcgat 180
gaggatgaac attcgcagcc ctacttcaag cctccccatc ttgacaaccc catttgcact 240
cttctgctgt ctgaaaccac gatggcattt ggcaggtcac ttgtcactga cagcaacggt 300
aactacaaag gacctctcac actttcacta aagcaagggt ccttactagt gatgcgtggg 360

<210> 18131
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B9

<400> 18131

atgaagatca caggattgga ctatcaaatac gagaagagtg gactgttgtc agctgagata 60
tcaggaataa cagaggacgg gaagaattgg agagttgcag ctgacattaa gaaaagaact 120
tgtggatgtg gacagtggca catctatgga aaaccttgca ctcattgctat agctatatattc 180
gtgaaactta caaaccttaa cattgaggac tttgaggatg actactattc aattgagagg 240
ttcataatgg cttatcaatt tgtggctcgt ccgatgggtg acaagactca atggccaaaa 300
tttgaccctg agtttaaaat gggttccttca aagctagaaa ggcttgctgg tagaccaaga 360
aagaaaagaa tcaaggctag tgcaaaagca agaaaaagac gcccatatca gtgcaaaacg 420
cgtttttc 427

<210> 18132
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-027-Q1-K1-A4

<400> 18132

gggaacccca cgcaggcgca gctccgggac atcgcggcgc aggagaagct gaccggaccc 60
ttcgacttcc cgcgcttccct cgacctcatg cgcgcccac tcaagcccga gcccccttcg 120
accgcccgtt ccgcgaacgc ttccgcgtcc tcgacaagga cggctccggc accgtcgccg 180
tcgccgacct ccgccacgtc ctcacctcca tcggcgagaa gtcgaggcc caccagttcg 240

acgagtggat ccgcgaggtc gacgtcgcgc ccgacggcac catccgctac gacgacttca 300
tcttccgcat cgtcgccaaa tgatcccgtc ctttctccct cgagtctccg attcgccgat 360
ccaccgnccc cgcgtctcttc gtctgtaatg acttcgtctc ccgtccgccg tgatttgatt 420
ttattt 426

<210> 18133
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G6

<400> 18133

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tgaagaaaat atatttggtta ggagtaaagc aaaagagaag cacatggagt acgaggaaga 120
gatgaagtcc caggaggaaa tttttcatgg tctaattgag gatattcaca aggccacaga 180
ggataaagaa aagcagtttg agaagttggt gcaggaagag cgctcaaagg ccagacgctt 240
tgatgttgat tctggaacta tgaaagatcg tcagctaagg aaggaatatg tgcagaagtt 300
cattgattgc caagtcaagg atgtggcaga gtttgaagtt gagcgagatg agctgatcaa 360
agtccacgag gacaagaagt tgaagctcaa gaaagaatac atggatctgg agctggagct 420
ggagaaggag tttgacgcag ccctgacg 448

<210> 18134
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G7

<400> 18134

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agggtttcac gatggaggcc gaggcggcgg ccaagagggc gcgggagggc ggtgaggacg 120
ccaccgcgcc ggtggcggtg gccgaggcgg cggtcgccgg tgctggcgag caggcgggga 180
tctccgccgt catcccaaga tggttctccg agatcagccc catgtggccc ggtgaggcgc 240
actccttgaa ggtggagaaa gtgctgttcc aaggcaagtc agactaccaa aatgtgatgg 300

tttttcaatc cttcacgtac gggaagggtgc ttgtcctcga cggagttatt caggtgacag 360
 aaaaggatga gtgttcctac caagagatga ttacttaact ggccct 406

<210> 18135
 <211> 122
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G8

<400> 18135

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 agggtaacac gaatgaagcc tgagtggatg ccaagaggac tcattagagc gatctggaca 120
 ca 122

<210> 18136
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-H10

<400> 18136

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 gaagaagcgc ggtctcacc cagaggaggt gcttctgctg gagaggagct tctaggagga 120
 gaacaagctg gagccggagc gcaagacgga gctggcgcg c aagctgggccc tgcagcctcg 180
 ccaggtggcc gtctggttcc agaaccgccc cgcccgggtg aagaccaagc agctcgagcg 240
 cgacttcgac cgctcaag 259

<210> 18137
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-H11

<400> 18137

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aggcgagagt acctgttgcg cgcctgaggc ggtgcaatgt cgtcttcctg cataccgacc 120
 ggctcgcggc tggacctgga catggtgaag gcggcgggcg cgccggtggg cgcgcactcg 180
 tcgccgctgc gcccggcgca ctactcgctg ccgtcgctga cgctgctgtc ggaggcgctcc 240
 aacgcctcgt catcgtcggc gacgtcggtg tcgctcaagc gggctcgcg cccgcggaag 300
 cggcccaacc aggcgtacaa cgaggccgnc gcgctgctcg cgtccatcca cccctccgtg 360
 ttccccgtga acaagagccc caagacggcg ccgncgcgcc cgccgcagct ctccgtgctg 420
 gcg 423

<210> 18138
 <211> 389
 <212> DNA
 <213> Zea. mays

<223> Clone ID: LIB3062-026-Q1-K1-H2

<400> 18138

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 gagcggggca acagcaagtg gatgcgggtg gacaacgtgc gtagcgcggt cccctcgtg 120
 tccttcctgg agcacggaag ctgcaacagg acgcgggggg cgccggcctt gtcataagg 180
 tccgtcgtgc aagagccggt cgaggacgag gacatgcagc cgggcggcgg cgctcggggc 240
 acggccacgg tcacgacggc ggcgtgcggc ctgcgggccg agccgacggt gcgcctcggt 300
 ggcccggaag ggaggtgcgt ggacgtgcct tacggttact actacaacgg ctaccaagtg 360
 cagatgggga gctgcaagtt caccagcgc 389

<210> 18139
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-H3

<400> 18139

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 cacatggagc aggtagatat tctgagcata tgctacctga aattgtgaag aaagattgga 120
 gaaaggggtgc gcagtggttt acagtgaac ggcagcatgc gattcttatt ctcgcgga 180

ccctttacta tgggaagttc aagcgttact gtaagccagg aaacgaatgg cataactgct 240
attcagacga gcactacttg ccaaccctct ttaacatggt tgatccgact ggaatctcga 300
actggtcggt gacgcatgtc gactgggtccg aagggaagtg gcatcccaaa gtctacaggg 360
ctgcggaacac aagcttcgat ctgctcaagg acatcgcgtc catcgacgag agcgccacg 420
ttagcagcaa cgcgaagcat gtcgcgc 447

<210> 18140
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-026-Q1-K1-H4

<400> 18140

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tgcagcggag caacggcaag tggatgcggg tggacaacgt gcgtagcgcg gtccccctcg 120
tgtccttcct ggagcacgga agctgcaaca ggacgcgggg ggcgccggcc ttgctcataa 180
ggtcgctcgt gcaagagccg gtcgaggacg aggacatgca gccgggcggc ggcgctcggg 240
ccacggccac ggccacgacg gcggcggtgc gctgcccggc cgagccgacg gtgcgcctcg 300
tcggcccgga agggaggtgc gtggacgtgc cttacggcta ctactacaac ggcaaccagg 360
tgcagctgtg gagctgcaag tncaccagcg ccgtgaacca gctctggacg ctcaagaggg 420
acggcaccat ncggtccaac ggcaaatgcc tga 453

<210> 18141
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-H6

<400> 18141

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ggggccgctg tcccgcctga gaggaagcac gggctgtcgt gcatgattcg ctggagacct 120
tcttgacct cggaactgt aacaggaccg ctggggcgcc ggccttgctc atactgtcca 180
tagtgcaaca gccgatcgag gacgacgaca tgcagccgag cagtagcact cggggccacgg 240

acattgtcac gacggcggcg tagcggctgc cggacgagcc gacggtgcgc ctcgctctgcc 300
 cggaaggtaa gtgcgtggac gttccttacg gctactacta caacggcaac caaattcaga 360
 tgtggagc 368

<210> 18142
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-H7

<400> 18142

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 gagcagcgcc ggtgctaggc caccaggtca agcaaagccc ttagttccgc cgacgtacga 120
 agaagcttgc tggcacggct ggttcgaccg cgacatggag acaatcgct tcgaatcaaa 180
 tccagcgccg acccgaacta taatcaagca aaccgacaac ctccggactg gcagcagacg 240
 cagtcg 246

<210> 18143
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-H9

<400> 18143

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 gaggttgggt ctggggcacc atggctccga tgaagctgta cggggcgggtg atgtcgtgga 120
 acgtgacgag gtgcgcaacg gcgctggagg aggctggctc cgactacgag atcgtgcccc 180
 tcaacttcgc caccgccgag cacaagagcc ccgagcacct cgtccgcaac ccgtttggtc 240
 aggttccagc tctgcaggat ggtgacttgt acctcttcga atcacgagca atctgcaagt 300
 acgctgctcg caaaaacaag ccagagctgt tgaaggaagg aaaccttgaa gaggcaacaa 360
 tgggtggatgt ttggat 376

<210> 18144
 <211> 334

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-A1

<400> 18144

agactaggtt aaccttgatt attggtcttt acacggtaca agtgatcaag gaacggggct 60
 acaaaacacg aagagagagt gccagttcat gctgatggat cacttcccgg aataaaccga 120
 tgtaaaataa aataaactag gttaaccttg attggccaat aatctctctg tttttatggc 180
 ctagttgcaa acaaagtac agaagcattc attccgtggg gaatcatgaa gaatgagcgc 240
 cgactgcttt ctttaccacc tgcgagtgtg tctgctgca cattgtaaca gacgtgcatt 300
 tactgaacta agtttaatac tatcaccgtt cttg 334

<210> 18145
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-A11

<400> 18145

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 ctgtttttcca accagacatg gccactggct ccgaacctga acgctatgtc tttaaaaatc 120
 tgcaaccgac gactaataac atcacacagc gacagattct aatagggcca tgactctcgt 180
 ccagatgacg tatatccaat tacacatgcc acgctgctga tacgatctac gagaaggcct 240
 cggacacgat accgaatggg accatgtcga attattgctg catactgata aatgctgtaa 300
 ttttcctggg caccttcacc agccgaggca gcggcagc 338

<210> 18146
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-A12

<400> 18146

gccacgtcgc tggaatccat ggtggacttt gccaccgccg gcctcgggac cagccacgtg 60
 agggccgcgt cgacggtcgt ggggagggag ggctcgccga ggcaggagta caccgtgaca 120

ggcgtgaagc gggcgggcgg cgggcgcctg gtggcctgcc acgcggagcc gtacgcgtac 180
gccgtgttcg cgtgccactt gacgcagcag acgcgggcgt actcgggtgc gatgctgggc 240
agggacggca cggccgtgga cgctgtcgcg gtgtgccacg ccgacacgtt cggctggaac 300
cccaagcacg tcgtctggac ccgcggcggc tgagagtggg cgccgtttgc atgactggg 360
catg 364

<210> 18147
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-027-Q1-K1-A2

<400> 18147

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ttactttgag aagtaccctg aactcaggaa gaagtttgat gatgaaatcc gntaaacgat 120
aactggggat attgaagaga ttggagagaa ctcttatgat gccatttcca tgtccgtgaa 180
gaaccaataa gtttcctgtg gcctgaattg ggtggtttcc atagcatgtg cacgggggtt 240
gggtggaatg cctacagatc gactgtgtca agctttcttg attccgtaga aacatgtttt 300
gtttgacctc atcatagagg atctccctt ttatcgtaca aagattgtga tatgttctta 360
gcttctttct acttgaataa gaggatttct gcagaccctt ttcctc 406

<210> 18148
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-A3

<400> 18148

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acaaatgatg acgccatccg caatctattc agcactggca ccgagaatga gttccacatg 120
tccactctat ttgtgttctt cactgcgatt tactgccttg gccttgagac atacggtatt 180
gctgttccat ctggactctt catccctgtt atacttgctg gggctacgta cgggcgcata 240

gtggggaccc ttcttgggcc aatttcagac cttgatcctg gact

284

<210> 18149

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G5

<400> 18149

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accttaataa tgatcaagcc tgacggcttc caaaggggcc taattggtaa aaccataagc 120

cgttttaaaa aaaaggggtt ttacttaaag gccttaaacc tgtgaacctt gaaaaggcct 180

ttgctgagaa gcactacgcc gatctcgctt tcaagccctt ctttcagggc ctctgtggact 240

acatcatctc tggccctgtg gtggccatgg tctgggaggg caagagcgtc gtcacaactg 300

gccgcaagat cattggcgcc accaaccccc tggcttttga gcccggcacc atccgtggcg 360

actttgctgt cgacattggc a 381

<210> 18150

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-026-Q1-K1-E7

<400> 18150

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aaagagccta cgcgctgate ctggaaaaca atccatttga ccagattgtc cacaagagga 120

aaattgctat cgcaaaagca caaggtggta tgctgatagt gattgattat ctcaataagt 180

atctggaatt gtttatggct gatcatgatg cttggagaga acttgctgaa acatacagtt 240

ccttacaaat gtacaagcaa gctgcctttt gttatgagga gctaataatta gcccaaccaa 300

ctattccact atatcatata gcctacgtg aagttctgta cactatgggt ggcttgga 360

atctncaaac agctaagaag tattatgca 389

<210> 18151

<211> 212

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-E9

 <400> 18151

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 aaggacgaca gtggctacgg cgacgagcgc cggcgcgagc tgcacgcgtt cgacgacacg 120
 aagctggggg tgaaaggcct ggtggactcc tgcgtcaagt acatcccgtg catcttnac 180
 caaccgcctg aagccctgag ccgacataat tt 212

<210> 18152
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-026-Q1-K1-F1

 <400> 18152

 tcgccgacgc atgggctgga aaatatgatc acattgatga tatgatacat acgacacttt 60
 gcttggacgg gggaactggt actcagatta tgactggtgg atttctaact gacaaacagg 120
 catcttatgg ctggatgttc aatctcaact gatgggcaca tttctacacg tatgatgtag 180
 ggttgcactc tggctctaca gctt 204

<210> 18153
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-026-Q1-K1-F10

 <400> 18153

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 tgagaagcgt atcaccgagc ttgtgaaggt tggcaaggac aagcgcgctc tgaagcttgc 120
 caagagaaaag cttggaactc acaagagggc aaagaagaag agagaggaga tgatgggcgt 180
 cctcaggaag atgagatcgg ctggtacgca cactgacaag aagaaataaa gcatttcaag 240
 ttcatgaatg tggcagccag agattatcaa ctgtgttttt tccctacctc tagaaactag 300

acatggcaaa gtatTTTTga ccgaaacatt ggttggtagt aatgtattga accacctcgt 360
 ggtatTTTTgc cccaacttcc aatgcatcaa tggtttTgt 399

<210> 18154
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-F12
 <400> 18154

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 agggtagact catgttggat atgtgctaac tcgcaaaaga aactcaggtg cccacacaca 120
 gtgctagggt tgctattctt cacagttcta atttttagca tttaaccaa ggcggtttgt 180
 ctatccttaa aaggagtgtg ttttccaatg cttgaacttt tgtaataagg gtgtgctaca 240
 tcaaatccag cgtgtttagg atactgctac atacatgaag gtgagcttta ggattgtttc 300
 cttaaagcct cctaaaaatt ggcattagga atttttagag atgctgacat accttagatt 360
 tttctctttt tttggggaac attcttgatc aaata 395

<210> 18155
 <211> 217
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-F2
 <400> 18155

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 actggccgtg gcgtgcgcgc tggcgctcgg cgccatggcg cagctgtcgc cgacgttcta 120
 cgacgcgagc tgccccagcc tgcaagccat cgtgcgggcc gggatggccg ncnccgtgca 180
 gcaggagccg cggatggggg ccctcatcct tcggcct 217

<210> 18156
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-F4

<400> 18156

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gttcgggtcc gggtagggcc gaccccgcgg ccccgccggt ggcaggcgcg gcagtagcta 180

cggcgacgcg gcgggttacc agcagcggta cggcaacgac gaggagtctg gggacggagc 240

catggatcag aacacgaacg gcgccttcca ggaggaagca ggccaaaacg gacgacgata 300

cactccatga gcttgcacgc tgtgtcatgc gtcagagata cactcagtcg tcgtcgtgtg 360

ttgctagcgt ggttactatc gtgtgtcca tctccgagta atctcccatg ggtcgatgcg 420

attgagtact tgtaacttaa tcgtgggcag aa 452

<210> 18157

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-F5

<400> 18157

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catgggacga cttactagtgc cacgtggctg agccgacgga gaagagtgga ccacgccgtc 120

tggccccgga gcctcagctg gtacagggag gccaccgagg agtactgccg gcgaatgcat 180

cggctgacgc gcgagctgtt ctagcaactg tcgacggggc ctgggctcta cgggagcccc 240

atggcgggacg cattcgggg 259

<210> 18158

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-F6

<400> 18158

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taccattcat gtgatgttgg cacttgggtgc attctgtctt ttcgtgtatt gcagtttttg 120

gacttctggc tttccttcat ggctgtcgtg ggtacgttca tatatatggc tacaattgat 180

gaagtttcaa agagagcaat gcatactgct gtatttatcc tcacggctct tttagctgcg 240
 actggtgcaa caagatctgc aaatattgga attgttattg ccattgggtc tgttggcctg 300
 cttatggggt ggctactgga gttctctaca gcacgaaggt ttatatgctg gccctcacga 360
 attaacctta atatgcctca aagatggcca aaccttagaa ctttgttcca gattactctg 420
 gagatggtga acaaa 435

<210> 18159
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-F7

<400> 18159

caacacccac gccgtgatgg agccgttcgt gatcgccacc aaccggcagc tcagcgtgac 60
 gcaccccggtg cacaagctcc tcctgccgca ctaccgtgac accatgaaca tcaactccaa 120
 cgcgcgccag atgctcgtca acgccggcgg catcttcgag accaccgtct tcccgcgcca 180
 gtacgcgttc gagatgtcct ccgtcatcta caaggactgg aacttcacag agcaggctct 240
 ccctgacgac ctaatcaaga gaggcattggc ggtcgcagac ccgtcgagcc cgtacaaggt 300
 acggctgctg gtggaggact acccgtagcg gtcggacggg ctggccatct ggcacgccat 360
 cgagcagtgg gtgacggagt acctcgccgt ctactacccc aacgacggcg tgctgcgggc 420
 gga 423

<210> 18160
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-F8

<400> 18160

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 atcattggat aactgagga agactagacc tgataaagag ctcaaagaaa agctgagaaa 120
 gtcaagccag aaagagataa ctctcaagga tgacattcca ttgagggata gggctgagct 180

gtatgaaacg tacctgatgt tctgcatcac tggggagact actaatgtat catttggaac 240
agctatctct acaaagaaag atgattcaga gtttttaatg ctaaagcaat tgggtgacat 300
acttggttta actcgcaaag aagctcaaga tgttcacatt aagtttgcag agaaagcttt 360
tgtgcaacaa gcggaagtaa ttcttgctga tgggaaatta acagaggcta aggctgacca 420
gcttgctaag attcanaagc aggtc 445

<210> 18161
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-F9

<400> 18161

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ggaaggggga cgcgaggagaa gatggggctc gcgttcggga agctcttcag ccggctcttc 120
gccagaagg agatgcggat cctcatggtc ggcctcgacg ccgccggtaa aaccaccatc 180
ctctacaagc tcaagctcgg cgagatcgtc accaccatcc ccaccatcgg tttcaatggt 240
gaaactgttg agtacaagaa cattagcttc actgtcttgg atgtcggggg tcaaga 296

<210> 18162
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G1

<400> 18162

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cagcgtttcc acggcactta agggtaaca ttaaggaac actccgtcgt gctgaaccca 120
agcactttga ttgatggaat gctgaaaaaa aaacatgcgt gtggcccatg aaagcatggc 180
aaggcctccc agaggttgag aacgtgtctc cagaaactct gtatcatctt ggtatactga 240
tcgatcttgg ttgaatctaa tcttctgtta ccgaaaaatt ctgcggctgt cgggctcgaa 300
tctgtagacg gctctggcaa ggagtccccc gttgctgggt ttggttaattc tttgttgggc 360
gatcgatgaa tgct 374

<210> 18163
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G10

<400> 18163

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 gtggtatcat atttgggtga ggcggattgt cttcttactg gtggtccagt cgcattcatac 180
 aactcagaaa acatagcaca gctcattgct gcctctgttg cggcacgggg agttcttttt 240
 ggaaatgctc atgtcacacc atcaagggtg catacaatcc ggagcccgaa gctctggcaa 300
 actggtcaat catcttgatt caataagggc cacattctga aaggaagatt tgattggtca 360
 aagacctgtg gggttttgaa cttcgctgac ttggtcacag aatttaaacc attggagag 419

<210> 18164
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G2

<400> 18164

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 gcggcaatgc atcggcgccg gtgtgcagtt tcgtgaggaa accaccaag aacatccgga 120
 agcgccccgc cgcgccccgc ggggtctgatg acgacgacga cggcggcggc ggcgccctcg 180
 ccgcccgcgc ctccaagaag gggccaccgt cctcaaccgc tggcaagctc gttttctcca 240
 ccgcaggtgc ttctccgag gcgcgcgggt tccagtacga atcgtcccgg acgatccagt 300
 ccacggacac ccgcgcaact gccacgctcg agacggagac ggagtttgac cgcgacgcgc 360
 gctccatccg cgagagacag ctcaagcagg ccgaggagtc cctcatgaag aacccttcg 420
 ctgt 424

<210> 18165
 <211> 159
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-G3
 <400> 18165
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 tgactaatgc atcagcgccg atgcgcaagc tcctgagcaa accacccaat aacatcctga 120
 agcaacccccg ccgcgcccac ggcgtctgac gacgacgac 159

<210> 18166
 <211> 200
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-G4
 <400> 18166
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 actcccagca ggaaatgatg catgcgccaa ctgaggatat tcacaaggcc acagaggaca 120
 aagaaaagca gcctgagaag cagatgcagg aagagcgctc aaaggccaga cgcttcgatg 180
 atgatactgg aactatgaaa 200

<210> 18167
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-E6
 <400> 18167
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 gtcgaccatt catgtgaccc cagaggacgg cttcagctat gcaagctacg aggtcatggg 120
 cttcaacccg ggctctttct cttatgggta cctgggtaag aggggtgctga ggtgctttgg 180
 tccaactgag ttctctgttg ccgtgaccat cttcggatgat cgggacaatg cgaagacctg 240
 ngggacgaaa ctggatgctg aggcctatgc ttgcagcaac atgggttgagc angtgctgcc 300
 gtttggtggc ttgctcatct atcagagctt cactgttacg gncgaaacga cccatgggtc 360
 gccgagggtca ggtctgcatg acntcgctgg tgacattgtc aagaatcgct canagagtga 420

tgctccctgg gaagctgat

439

<210> 18168

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C9

<400> 18168

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agctgggttca gcttcgtcga catgtgcgcg ctccgcgtcg ccgtcttctc gcagactgag 120

atgactgatg ttcatg 136

<210> 18169

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D1

<400> 18169

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caagctgcaa ttgcgtatag gttcagaaaag gacaatgaga aagcaaaaaga tgcttttgag 120

aaggcctcaa aaggacagga aatgatctcc tcaccatggg acgctgctaa gcatatggaa 180

tctgctgctg ctttagcaaa ggagcttggg cgctggaatg aagtatctga tttctatcac 240

agagcttcag aattataccg tgaatgtgg 269

<210> 18170

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D10

<400> 18170

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tatggatgtc gtgcaatcac cttgtggctg gcctttggaa ttcgagaaga aacagcagga 120

gatcattgac ctgtggcatg gatgcaacgt ttccttggtc cacaggactt actttttcct 180

gctgttcaaa ggggacccag cgcacgcat ttacatggaa gtggagctta ggaggttatc 240
 gtttctcaag aacacatact ccaacggaag catggggtat gatatgggtg caggcagctt 300
 gagcacttct ttggtttcaa gtgcaaagaa actgcaacgc gagagggaga tgctctgcaa 360
 gcagatgcag aagcggctga cgatccagga acgggagagc ctgtacacca agt 413

<210> 18171
 <211> 391
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-D11

<400> 18171

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 tggaaagatc agcgagggga aagttgctac ttcaattgag gctctctgcc gtggatatcc 120
 taccgaattt gcttcttact tccattactg tcgctcacta cgctttgaag atccaccaga 180
 ctatcaatac ctgaagagaa tgttcaaaaa accttttatt ccggaaaggt ttcaagttga 240
 atatggtttt gaactggaca attctaaagt accaacaatgc ccaaataacc acggctccgc 300
 cacgtgcaat tgctccagca gtaggacaaa gctctgggat ggctcctgtg gcaaacaaca 360
 atagacattc angcactgaa aagggaagga g 391

<210> 18172
 <211> 132
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D12

<400> 18172

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 actggtgttt tgtaaaactat cactgggctc acgattattg aactacagac aaggcagccc 120
 gtgacaattt tt 132

<210> 18173
 <211> 393
 <212> DNA

<400> 18175

ggtaaaatga aacctgagga ggccgttgta gcaaccttat cttccctgcc agatgaagtt 60

gtcgatacag ttgggactgt actgccttct gaagattctg tttcagagag gaagagaaaa 120

ttggaatttc tggagatgca ggaagagctt atcaaggaag aggagaaaag gcaagagaaa 180

gaagacaagg caaaactgga ggagccaaag gctactgaag aagatttggc tttgaaggaa 240

atgactgagc ctactgttag ggagaaagag gaactaaaga aagcaaaaac ccacgataag 300

aaagagcagc tttgtaatat cagtcaagca ttggctgtgc ttgcatctgt ntcttctgtt 360

accaaagagc gancagagtt ttttaagccct gtcaac 396

<210> 18176

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D5

<400> 18176

gcgctacgcg gtacgcgcac acagccaaac cattctccct ttccggcgct tcgtcgccgc 60

agtaggcacc gggcaagatg aagacgatcc tggcgtctga gacgatggac atcccggagg 120

gcgtcacggt cacggtggcc gcoaagctgg tcacggtgga ggggccccgc ggcaagctca 180

cccgcaactt caagcacctc aacctcgact tccagctgca ggaggccggc cgcaagctca 240

aagtggacgc ctg 253

<210> 18177

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D6

<400> 18177

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gccagctggt tcagctcgag gagaccaatg ggaaaaatac atcctactca ccacagactg 120

tgtttgtatc acgtgcaa atgttcaggat gaaagggagc tcaagaagca gaagcggaag 180

caatccaaca gagagtccgc tcgcagatcc cggctgcgca aacaggctga gtgcgaggag 240

cttgggcaac gtgctgagggc tctgaggtcg gagaactcct cgctcagggc cgagctcgag 300
 cggatcagaa aggagtacga acagctactt tcacagaacg ctttccctaa gggaaaagct 360
 tgggggctgc cagtagtgat tcgctttctg atatgaacga acagaacgac 410

<210> 18178
 <211> 233
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D7

<400> 18178

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 tgctcgccgt gctcgacacc aacatcctct ggggtgaacc tgactgtggt ctcaagacac 120
 gcaagtacac ggaggtcaag cccgccctga ccaacatggt ctcgccacc aagctcatcc 180
 gcaccagct tggcagcgcg aaatgaaggc ggttgatagc tccatggtct gat 233

<210> 18179
 <211> 376
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-D8

<400> 18179

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 acgcgcgcac aaccaccgtt ttccgtcacc cgctgctcgg agatttcgag gtgctgacat 120
 atatagatct gatgttcaca ttcagagtgg acagtggaag cttgcttcca gtgatggcat 180
 tggcgtgccca gttgccatgc cagctgtttc tatgcatgat tgtgtgctcg atcagtttct 240
 gcacagatat gatgcctgat gccaacaccg tttcttcgat tccaggtacc ggtggatgca 300
 gacgacgccg agatcgagga gcggatcatg cagcacctgg ccgncgncgt cgn cattcgc 360
 cggtcgcacc ggcacg 376

<210> 18180
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D9

<400> 18180

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gggaacctct gctcggaggg gaggggaagg gaagcaatgg cggccaacgg aggcgggtac 120
cgggcggagg acgactacga ctacctcttc aaggtggtgc tcacggcgga ctccggcgtc 180
ggcaagtcca acctcctctc ccgcttcacc aagaacgagt tcagcctcga gtccaagtcc 240
actatcggcg tcgagtttgc caccgcgagt ctccaagtgc acggcaaggt catc 294

<210> 18181

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-E10

<400> 18181

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aaaagtctga cagagaggat gcattgtact ataaaaaatg aactaaagag aagacagtcc 120
atgtggaatt ctgtacactg ggaactggtg gagcctgctg ttagtatcag aactttgagg 180
gctcgcataa ttggcctcga taagaatgac ctggataaag cttttatata gcttacactt 240
gagtttgtaa ccaaaccgaa atttggaagc ctttattcaa aaggggccat tgtgtctgga 300
gaacaatcga aaggaggact tgggaaagac atttggtggtg ttgaaaaggc ctttttttaa 360
cccggagcat attggcctgt atgccgaaga attacactgg taccatatct ggttt 415

<210> 18182

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-E11

<400> 18182

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ggcgtccaag gcggaggtgt tcgctgacac cgtcggccgc aagcccagca aggccaagta 120
ctacctcgac gacgcggcgg aagtggtag gctgatgcaa gggctctcct acgtctcata 180

aaagagagga ccaagggtcat tgcggaactc agtggactca ttcttacacg agggcccaaa 240
ctctgcaatt ttgttgagtg gagaggttac aaggtegtat accggaggta tgctagcctg 300
tatttctgca tgtgcattga tgccgaagac aatgagcttg aagtccttga gatcatccat 360
catttcgtcg agatactgga ccgctatattt tgcagtgtat gtgagttgga tttgatattc 420
aattttcata aggcctacta catactggat gagattc 457

<210> 18186
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-E5

<400> 18186

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gcgacacgag ctgagtgagt gccctgcaag cccaagctcg tgacagagat aggacttcag 120
ctcgactcgc gcggtcgcct tgccctgctgc acacgagccg tcgccaactc gatcctcacc 180
ggtgaccctt accgcagctc atatcactct gttcttgcgc ttcactcttac tgttaatttc 240
ctgccaattt aatccccacc gccatcgctt tcttgaacca aagccatggc gcaagctgct 300
tacgggtcca gcaagatcga caccaaage 329

<210> 18187
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C7

<400> 18187

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gcgtcgtctg cctgcttgcct ccaagcttcc acggccttcg ctccacgctt ctccctcccg 120
tcccgacccc agcccccgct acacctgcgt ctccgcggct cccccaaccg tcgccgtggc 180
atctcaactc ctgcttcttc cgccgcgtcc ccggaagtcg agaaagagtc ctgcacctcg 240
tcctcgccgc aggaatctct gtctgctgct gcggacagtg tgaaggtgct caaggtggca 300
gccaaagacg ggaaagtacc tgccccggaa attctctcgg cgctgtccaa gatcaagaag 360

gcaaaactcg acacgtcggc attctttgag acactcgggtg gtaccgagtc

410

<210> 18188
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A6

<400> 18188

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ctggagagca aggggggtggc gttccccaag agccagccga tgcgggtcta ctccagcctg 120
tggaacgcgg acgactgggc gacgcatggc gggcgctca agaccgactg gtcccacgcc 180
cccttctccg cctcctaccg cgggttcaag gccgacgctt gcgtcgacgt cacgggcggt 240
cggacccgct gcggcgccac cgtcggcacc gatggcaccg gcgccccgc ctacgtcggc 300
ggcgccgggg actggtacaa ccaggaacct gacc 334

<210> 18189
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A7

<400> 18189

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taagaaggaa ggccccaagt ccctgttcaa ggggtgctggt gctaacattc ttcgtgccat 120
tgctggcgct ggtgtgcttt ctggctacga ccagctccag atcctcttct tcggaaagaa 180
gtacggctcc ggcggtgctt aaatggagaa aaatgatgac gaacaagagc agttcgctcc 240
cggccaacc cagtcaggat ctggtcaagg ttttggttt cattatgaag aaattaatta 300
tttattgaag aaaatttttt caacattccg tttgggccga aaccttggtc ttaaaa 356

<210> 18190
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A8

<400> 18190

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agaatttcta tggttgatgc tgagagaagg ttgctggcaa atgctctaca agacatggac 120
aatcagcatt ttattttgct atctgatagt tgtgtacctt tgcacaattt tgactatgta 180
tatgactacc tgatgggtgc aaatctcagt tttattgact gcttttatga tcctggaccg 240
catggaaatt ttagatatcc aaagaatatg ttacctgaag tcacagaggc tgattttagg 300
aagggttcac agtgggttctc agttaaacgc caacatgcgt tgatgatcat 350

<210> 18191

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-026-Q1-K1-B1

<400> 18191

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tgctctgggc ctcaagaatg gctgtggtgt gaatcttggt gtggaaatgc cacaaaagca 120
agagcaaaga ccattgatct atgcaacaat ccaatgacaa aggagccaaa gcttcagggt 180
gctagaagaa tagttccgga gtggaetggt cttgacagtg aagcacggca gttcactgca 240
cgaatcttgg gtgatgatgt cgagcctgca gatgccacac ctncgccatc ggaagcacccg 300
aagcctgaag atgatcagga tgtgaaagat gagctatgat cgcaagatgt ttccaggctt 360
ggtcttactg aatgaaaagt tggtgactcg acagtcac 399

<210> 18192

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-B11

<400> 18192

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cagggagagt gatccgctgg gccggcgggc tccggaccgc gactctttcg cgccccctcg 120

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-B8
 <400> 18195
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 gccacgcgcc tggcgctccg cgctgctgc ggcgagaagt tcccggcggg gcgtgcgtac 180
 gcgtcgtgcg aggacctgcc gaagctgggc gcgtcgtgc actggacgta cgacgcgtcc 240
 aagagctccc tgtcggtggc gttcgtggcg gcgcccgcag aggccggcgg atgggtggcg 300
 tggggcctga accc 314

<210> 18196
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-B9
 <400> 18196
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 agccgcgctg gcggggggcga gttcgtgcc aangactaca cggacccttc cccggcgccg 120
 ctgatcgacg cggctgagct ggggtcctgg tcgctgtacc gcgccgtgat cgccgagttc 180
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 acggacgcgt ttgcgtcagg tgccgac 267

<210> 18197
 <211> 320
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-C1
 <400> 18197
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tcaattcata aacgacttgt cagtctcaaa atcgaccagg gtgaaggcta taccgaaat 180
 atttgctgac gctgggtttt cagatgttac acagaatctc ttggctgtcc tgacggacaa 240
 tggcacgctg aaatatactg aacgcattgc ggagagattt gctgatttga ctatggaaca 300
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<210> 18198

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-026-Q1-K1-C10

<400> 18198

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 atggccattt aggagataag gtgccaagtt acttgaaagc taaccttttt agcaacataa 180
 tgaaagagcc tctcttctgg tctaaccctc aataagcaat ctagaatgca tactgctcta 240
 caaacaagtc tattctacaa aataccaaac aacttggacc acctgcttcg acagcagcta 300
 ctgctattgc agttaatcgc taagacatgt ggatagcaaa tgtatgcgac tctccaactg 360
 cattgtgtga aacacgctct 380

<210> 18199

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C11

<400> 18199

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 cgtctacact aagtggggta aatgtggcga ttcaccacct acattttttg aactatgatc 120
 tgccattcct tcaatgcaaa gaagaatctg actgctgtgc caagtcaagt atcgattttt 180
 catttttgtc caatccacgc acataatcat ccatattctt gtatacaccg tgcactatgt 240
 ttacggccaa ttggttctat gctatgaacg cacattactc ctttgttcac tgcagctaac 300
 aatttaac 308

<210> 18200
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C12

<400> 18200

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cgtgggtcggg aagctcgcgc tgggtgttct gttcttcaac gccagctagg gaagccagtg 120
cctttcctcc tcggcctcct tcagcacggc ggcgtcctgg cagtggccgt cttgcacgca 180
ggcgaggacg cgctccttcc ggtgcgagat cgtgtccatg cgccacgtcg acaccagcag 240
catgcgagag gagcacgacg ggtacaagac gagcatgaac ccagcctacg tcgtccacaa 300
ctgctactcc agctccatat cgcac 325

<210> 18201
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C3

<400> 18201

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gctgggtcct cctgctcgca ggctcagatc gtcacggccg tggctgtact cgcagcggtg 120
ctgctgctgc tggcggcggg ggtcgagacg gcgtttgcgg cggtgagcag cggcgaggtg 180
acgtcgtcag tagcgccgtg cctcgggtac gcgatggaca tcgcggagac gccctccgcg 240
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gccacc 306

<210> 18202
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C4

<400> 18202

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aagtaaggag atcatgcaca acctgcgga gtaccagcta cctttgcagc gctatatggc 120
catgatggac cttcacgaga ggaacgaaag gctgttttac aagctgctaa ttgataacat 180
gcaggagctg cttcctgcgg gttatacacc aactgtaggt ga 222

<210> 18203
<211> 276
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-C5
<400> 18203

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cgctcctcct cctcccagcc gcagctggtc gcggcggcgg cggtcctggc agcggcgctg 120
ctgctgctgg cggcgggggc cgggacggcg tcggcggcgg tgagctgagg cgaggtgacg 180
tcgtcggtgg cgccgtgcct cgggtacggc atgggcagcg cggcgtcgcc ctccgcgggc 240
tgctgcaacc ggggtgcgctc gctcaacagc cgcgcg 276

<210> 18204
<211> 334
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-A5
<400> 18204

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gctgggcccga gcgcgggtac tccgttgtca ccgtgcagtg cggcgaccgg cccaagctgc 120
tgttcgacgt ggcgtgcacg ctccacgaca tggactacgt cgtgttccac ggcaccgtgg 180
acaccgcggc cggcgcgcgc gccaggagt tctacatccg gcgcgccgac tgcagcccca 240
tccgggtccga ggccgagcgc gaggtttctca cccaccggct tcaggcagcc atcgagcgga 300
agtcgcttgg aggcgtgagg cttgagctgt gcgc 334

<210> 18205
<211> 118

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-C6
 <400> 18205
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 ctcgctggat ccactccac ggatcataag tcccacgcag atgattagca atgcaact 118

<210> 18206
 <211> 290
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-025-Q1-K1-G9
 <400> 18206
 gcgctgatgc tgactactgct gcagccgctc ggaacggtag caccagcagc agcagccctc 60
 gccatgtggc cgtttttcgca cccgcgtctt ccaccacct cgagctgccc ccctacagct 120
 cctcctgctt ctttcaggtg cccaggtttt ctcttgggca tgaagccatt gggctgtgat 180
 gtgaggtgca cagaacaaaa aatggggagg gggccccctc cattcctcta atctgggagg 240
 actaatggct atgattggcc ccatcaacca ggcgtagaga agctttgaca 290

<210> 18207
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-025-Q1-K1-H1
 <400> 18207
 tcggtcggtg gcacgagaca ggagacgcca aggccatagc tagagcctag agcagcagca 60
 gaggcgtgac gtgaagctcg accggccatg gcattcacgc ccgctacggc ctgctgcaag 120
 gcttccttgg cgctggcacc gcggggcgtc ccccgcggcc cggcggcctg cgcgcaggcg 180
 gcgctcctct gcacgcctta cacctccgtg ttccgcggcc tccgggcgcc cgcacccgcc 240
 gcgcccggccc cgcgcgggcg ccgctcggcg gcgtccacgg gcatagtctg cggcaaggtc 300
 gccaaaggga gcgtgccgtc gaacttcacc ctcaaggacc agaattggaa gcccgtgtcg 360
 ctgaacaagt tcaaggga gcccgtcgtg gtttacttct accccgccga cgagacgccc 420

ggatgcac

428

<210> 18208
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-H11

<400> 18208

aaagcacaca tttttaagat tatacatcaa acatgctcat caaatgccaa atttcccatt 60
cacaggggtg acaaccttac attccccaaa ccttaaaaat caatagatga atcaatcaat 120
gttcatgtta aagtacacca tagttctaata accactcaat tatgatcaac taatctctta 180
tataatacta aattacttta ccaacacccat aaccataaat atcgatccaa ttaatatatt 240
atagatcaaa ttgcttatta accctccaca aatatcaatg at 282

<210> 18209
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-H12

<400> 18209

acgctaaaagt ctaccaccac ccgccttctc tggagttcga tctgggtgct cccccagaca 60
tgtcggggccg cggcaaggga ggcaagggcc tgcgtaaggc cggcgcgaaa cgccaccgca 120
aggtgctccg cgacaacatc cagggcatca cg 152

<210> 18210
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-H2

<400> 18210

caagaaaatt aacaatgccg gagatcttat cactatcctg gaggatgctg ttanagttn 60
atggccaagg gtaataggat ttacacaaat gtacaaatgg tgcacagtta caggcagaat 120

ctgacacctt tagtgaaaat ggacacagga gctttcttgc aatggctgat tatcttgtca 180
ctgacaaaat cactgcattc ctacgcgcaa tgcaacgtgc agcaactgaa gtccttaaag 240
agaaacaact gaaagaccgt atgaacatgg accaagtatt gcagacagta ttacaaatat 300
tggacatggt catggccctt tctgaagata actcatggat aaattatctt gtacctgaga 360
atccccctgt ttatgcacag ttgatggctg tgtc 394

<210> 18211
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-H3

<400> 18211

gaagagtaat tttggcaaaa gaagagctgg gatcggatgt tgatctcgac tcacttgcca 60
atatgactga tggttattca ggaagcgacc tgaagaatct gtgtgtgacc gcagcgcatt 120
accccatctg agaaatccta gagaaggaaa agaaggagaa gagtttggct aaaacagaag 180
gtaggccaga gcccgcgttg tatggaagcg agcacatccg tcctcttagc atagacgact 240
tcaaatccgc ccatgagcag gtttgcgcgga gcgtttcatc cgactcggca aacatgaacg 300
agcttctcca atggaacgac ctgtacggcg aaggcgggtc gaggaagagg aaagcgctga 360
gctacttcat gtgacggcga gagacataaa accagaagga tcacaaccgc gccataaagc 420
cagaaagtat cgcagt 436

<210> 18212
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-H5

<400> 18212

tgtaaacatc attttttgtg cctgtcttaa gctggatatt atgctgtgtg gtgggtatgg 60
tcccatatct ctgacacatt ttcattctga ttagtctttt ttagcacat ttgtgaagct 120
gttaatttaa caacaatgta tatctagagt tattagattg cagtctcttc gagtcccttt 180
tgtttgatgc ttacagaagc cccccctccc ttgacatagc ctcaaaattt tcaacaacat 240

Sequence

gncttgtgat gcaacagaag gcctaatttc atttttttta tcttttctcc aatagaatcc 300
accctctgtt ccaacactgg ctgctgtaaa actggcaagt tggctgagag gtgctaaatt 360
tattgttgat tggcataagt ttggatatac attgtcggng ttgtcgcattg gc 412

<210> 18213
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-H6

<400> 18213

ggcntcggcc ncnaagnncc cganaaaaat aacaatggct taggtcttat gactatcctg 60
gaggatgctg ttagaggtgg atgtccaagg ctaatagtgg cagaggacat tgagcaggaa 120
gctcttgcaa cccttgtggt taataggctt agaggtgcat tgaagattgc tgctattaag 180
gcccttggtt ttggagagcg caaaagtcaa tatcttgatg acattgctac tctcactgga 240
agcactgtca tcagagaaga agttggatta tccttagaca aggcagacaa tgcggtccta 300
ggaactgctg ctaaggttgt agttaccaag gattcaacaa caatagtggg agatggcact 360
acacaggagg aagtgaacaa aaaggtgaca canatcaaga accagattga ggctactgaa 420
caagaatatg agag 434

<210> 18214
<211> 318
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-H7

<400> 18214

ccggcaaaat ctgcacgaga gacagaggac gagattgccg atgcggagga cgccgccggg 60
tcggtccgac gggccggcat aaccgactac cgcaagaagc tgctcaactg canggagctc 120
gagtcgcgcg tcggcaccgt gagagaaagc cttaaaaatg caaagaggga ttttaccaag 180
actgaagacg acttgaaatc tctgcaaagc gtggggcaaa taattggaaa gggttctccga 240
cctcttgata atgaacgctt tattgtgaaa gccaacagtg gtccccgata tgtggccggt 300

tgccaaagta aagtacac

318

<210> 18215

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-H8

<400> 18215

gaggaggagg tgcaagggaa ggtcgtccaa gaagaagtgc aagtcgtcca agagacggtg 60

gtgccggtgc cgctggagga ggacaaggag gccgaggcgg cgctggtgca caagatctcc 120

agcctggccg ccgccatcgc gaagctgcca tccttgagcc cgtcgccgga ggtgaacgcg 180

ctcttcaccg agctcgtgac ggcgtgcatt ccgcgcagca gcgtggacgt ggagcggctg 240

ggcccggagc tgcaggagat gcgcggcggg ctgatccgnc tctgcgccga cgcggaggcg 300

ctgctggagg cgcactactc cgacctgctg gccttcttcg acaaccgct ggagcacctg 360

tcgctcttnc cctacatcaa caactacatt ctgctgagcc agctggagca cg 412

<210> 18216

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-H9

<400> 18216

tgcattcagg cgccacgcac attcgtcgtc agtcccagag gatcttgtgc tcagggaaca 60

gatctggcgc aacaagcctc cgtggcgcat tggcagagca tcatcaagat cttgacaaat 120

tctctcgatg ttctgaaatc aaattacgtg cctccgttcc tgatctgcaa gatgttcacg 180

caagtcttct cgtttatcaa tgtgcagctt ttcaacagcc ttctgctgcg gcgtgagtgc 240

tgctcgttca gtaacggaga gtacgtgaag gctgggctgg atgagctaga gcattgggtgc 300

ttttggctga ctgaagagta cgcgatgatc gcat 334

<210> 18217

<211> 277

<212> DNA

gataactttgc catcgcccta tctggaagtc ccctagtcag ttttttgggg aaactttgtg 180
aagctccata caacaagaca ctggattggg ccaaattgga catcttctgg tctgatgaac 240
gtgctgtggc aaaaaaacca tgcagagagt aactataggt taacaaaaga aggattcctc 300
gccaaagtac cgattctgaa tggccatgtc tactccataa atga 344

<210> 18220
<211> 378
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-A12
<400> 18220

atcgggtccc acagactcat acgcatatat ttttacagac acccatcaga agacacatgc 60
acgtacaagt tctaaccacc ttggggaacc tcaagtaaaa caacctatct atcctctaata 120
tacaacacat taactactat cattctttta taaccttcac attttatgat tctgaaaacc 180
tgacaaatgc gaaaaccatc aaactgtaaa tctactaatc ccactccatg tataataatg 240
ccattatttt gtatcaacct aaattatgac tactgcgaac agataaaattt atttacctgc 300
cgtatctcta caacttgcac ctgcttcgct tctagttgct agatcaaaac cctcttttct 360
acactaacgg ctectaca 378

<210> 18221
<211> 389
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-A2
<400> 18221

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agatgcgccg cgctgcgctg ttgctcgtcg ccgccgtgtg gcgctggcg gcgccggctg 120
ccgcggtcgt cactgacggt cttctcccga acggcaactt cgaggatggc ccgcccgaagt 180
cggcgctggg gaacggcacg gtggtgtcgg gcgcccacgc catcccgcgg tgggagacgt 240
ccggcttcgt ggagtacatc gagtcggggc acaagcaggg ggacatgctg ctggtgggtgc 300
cgcagggcgc gcacgcggtg cggctgggca acgaggcgtc gatcctgcag cgcctggccc 360

tggcgcgcgg cgctactac gccatcacg

389

<210> 18222

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A4

<400> 18222

gccggcgccg ctgcagtgtc catagccacc tcaggagact gagatggggg gttttgtcaa 60

ggcccacgag agcaatgcgt acttcaagcg tttccagggtg aagttcaaga gaaggcgcg 120

tggcaagaca gactacaggg ccaggataag gctgattaac caagacagaa acaagtacaa 180

tacacccaaa tacagatttg ttgtgcgatt taccaacaag gacatcacag cacaaatcat 240

ctctgctagt atagcagggtg atatggttct tgctatgtgc ttactacgat gag 293

<210> 18223

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-G8

<400> 18223

ggcctcgggc cacaggttct gacagttgtc aatgacattg cttagcttgt atgttagagt 60

tcaggtcacc atagtaggca ggcattggcta cttagatttt gcccagggtg caaatggtgc 120

acagttacag gcagaatctg acaccttttag tgaaaatgga cacaggagct ttcttgcaat 180

ggctgattat cttgtcactg acaaaatcac tgcattccta gcgcaaatgc aacgtgcagc 240

aactgaagtc cttagagaga agcaactgac agaccgtatg aacatggacc aagtattgca 300

aacagtatta caaatattgg acatgttcat ggccctttct gaagataact catggataaa 360

ttatcttgta cctgagaatc cccctgttta tgcacagttg atggctgtgt ccagtagtgg 420

ctttgatga 429

<210> 18224

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-F2

<400> 18224

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ccatacaggg ttaagcatga atatgaagg caatggaatg ataagaagac ccgcctgaca 120
acgtgtgacc ctcatgetca acgtatcatt acttcgtccg agtctcctca ggaggtcgaa 180
gttggaagg atatcatatt tacttacgat gtggatttca aggagagcga catcaagtgg 240
gcatctcggg gggacagcta tctattgatg acagatgatc agatccactg gttctctatt 300
gtgaattctc tcatgattgt tctcttctt tctggaatgg ttgcaatgat catgcttcgt 360
accctttacc gggatatctc taagtataac caacttgaga etc 403

<210> 18225

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-F3

<400> 18225

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caagtggagg cgggagcgga tcagatggag atggtgagaa aaatgaggca gttgatattc 120
aaagtgggtc tgaatccctt cctgataatg ccaatgctta agcaactgat gaccgtgcta 180
ctgtcagtct ttctgatgaa accgggaata taccatcagt tcatactgat aattcgcaaa 240
atgatgccag tgaaaaccaa ggtgatgcaa cttacactac ctctgattcg tctgagcatt 300
gcattgttga tgctgtccat attgaaact 329

<210> 18226

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-F4

<400> 18226

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ggccagatga ggagggagct cgcatgctcc tgctcgctacc gccgcacccct cttcctcggc 120

agccgacgcg ctccggggct ggtgggatga cgtcaacgag tcgccccagt ggcaggacgc 180
ggcctttcttc tccctcgccg ccgcctacgc cctcgtctcc gccgtcgcac tgattcagct 240
cgtcaggatc cagcgccggg tgcccgagtt cggatggacc acgcagaagg tcttcacact 300
catgaacttc cttgtcaacg ggggtccgtgc tctggtattc ggcttccatg tccacgtctt 360
cctcctccgc gcaaaagtat acaagttggt gttgctagat ctccctggtc tgttgttttt 420
ctccacctac accttgctcg 440

<210> 18227
<211> 417
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-F5
<400> 18227

gttcgaggtg ctgcaggagg tgaggtccga ggacaggctg agcaccggca gcggcgggag 60
cgcggtggtg gacgcggacg cgctgctgta cggcaggttc gccgcggcag ttgatagcag 120
cgtggagtcg tacttccccg gcggcgagga ccactaccac gactgcggga cgatgggccc 180
cgtgaatcat ggcgcgggag gaggcattca gtcggacgac gacggcgccg gcagcgacga 240
ggggtgcagc tactacgccg acgaagccgn cgnccnccnc gncgcgttct tcgccggaca 300
cgccacccac caccacgcgg acgaggacga ggacgccggc cagatcagct ggtggatgtg 360
gaactagacg ttcgatcttc ccacgccgat cgatcgaccg tcttcgaatc ctgtgtc 417

<210> 18228
<211> 371
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-F7
<400> 18228

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taagggatcc ttgcacacct annaaatctt aatattccaa taacatttcc atatacaact 120
atnttattgt cttcacattg ttttacctat atacaatcac aaatagcttc cttgccgatt 180

atgttctcng cgaaggagga tttgggaccg tttacaaggg ctacatagat gaaaatgtca 240
 ggggtggggct gaagtcaactg cctgttgacg tcaaggtgct caacaaagat ggacaccaag 300
 ggcacagaga atggcttacc gaaattaact gcctggggca gttaaggcat ccaaacttgg 360
 tgaagttgat c 371

<210> 18229
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-F8

<400> 18229

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 tgagacggat tcggtgtca aggcgtgaa cttgggctcc ccgaagagcg gcgacgcccc 120
 gcgggggttc cgggagaaac ccaggcactc cgagaagccg accaagtacg ccggcagccc 180
 caagagcagc gctcctcgcg tgatccacca gcctcgctag gttcgctggc cgccccctga 240
 tggggactcg gtgactcaca tggaaggctg ctgcctctct agcagcatct gctactggct 300
 gcagctgccg tcggcgctcg ggtctgtctg tcaaagtcga agtaaaaaaa cgtgagtagt 360
 tgtactactg tagaagtttc ttttgtatag catgcacgta agaaatgacc aa 412

<210> 18230
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-F9

<400> 18230

ctcccgcctc ggcttccgct tccgttcttg ttgctctcct gtgttcgggt tcccgggtaa 60
 gcggatcgtg atcgccgcat aggagtgtga ggtaccgtgc ttctcgccg cctcaactga 120
 gccacggacg accacttctt ccacaacgcc ttcagcacct acggcgaggt cctcgagtcc 180
 aacatcattc tcgatcggta gacgcacagg ttccgcaact tcagcttctt caccttctcc 240
 ac 242

<210> 18231
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-G1

<400> 18231

cttgttacaa aatcctgcc aagaatgccat tggagatagg aagcacaacc gcaccggatc 60
agatataagg gatccttcca cacctaggaa agctgaagat gccagaaca tttccatata 120
caacgatgtg attgtcttca cattgtttga gctagagaca atcacaaga gcttccgtgc 180
cgattatgtt ctccggcgaag gaggatttgg gaccgtttac aagggctaca tagatgaaaa 240
tgtcaggggtg gggctgaagt cactgcctgt tgcagtcaag gtgctcaaca aagatggaca 300
ccaaaggcac agagaatggc ttaccgaagt taactgcctg gggcagttaa ggcattccaaa 360
cttggatgaag ttgatcggat attgctgcga agatgaccat cggctgcttg tcta 414

<210> 18232
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-G10

<400> 18232

cggacgcgtg gggttgatct agatagcaca cgatccaagt atatattcgt aaataatgag 60
acggctgtgc cactgcgggtg caagccctgg tgcgtctcag agcttgctta tggatgaactc 120
ttcgtgttag gtttcttctt tatatctgtc gtgtctgtgg tgcgatgaa ctatctagta 180
tgtggagcgt gtgcgtctca gcagttaccc tgccatgcc cgtggactgg ctgtcctgcc 240
tactggctgg taaccatgta tattaatata aaaaatgaat ccgtgaccca aaaaaaaaaac 300
caagaaattc aaaaaaaaaa gaggcccaa aaaaaaaaaa ggcggccct tttaaagaac 360
ccaacttaac ttccccctcc t 381

<210> 18233
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-G12

<400> 18233

ggctgagctc gaccttggtg tctgcattac ggaaggaatt cccagcatg acatggtgaa 60
agtgaaggct gcactaaata gacaatctaa aactcgattg attgggcaa attgccctgg 120
tatcattaag cctggtgagt gtaaaattgg aatcatgccg ggttacatcc acaagcctgg 180
gcgtattggg attgtatctc gttctggtac cttgacatat gaagcgggtg ttcaaacaac 240
agctgtaggc ttggggcagt caacttggtg aggcattggt ggtgacccat tcaatggcac 300
aaattttgtt gattgccttg aaaaatttgt cgatgaccct cagacagaag gcattgttct 360
catcggtgaa attggaggta cggctganga ggatgctgca acgttcatcc 410

<210> 18234

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-G2

<400> 18234

acgcgtccga tcgattccgt gttatggtgg aggagagtca ttcttttggg gtgcttggcg 60
agtgtgggcg tggccttgcg tgaacattat ggagttccta ttgaaaaaat tgatatcatc 120
actgctggaa tgggaaatgc attagctact gatggtggct cttgtacagg aagtgtcaga 180
gttgctgac atcagcgtct aagcagctct gggatggtt tctctgcac tctgccacct 240
tatcttgcca gtgctgctgt ttctgctgtt aactatctcg aggaaaatcc ctgagttctt 300
gcaaacctaa ggagcaatat tgctcttttg cataaagaac tatcagatac ttcagggctt 360
gaanattcca gccatgttct gtcacctatc ggcttctt 398

<210> 18235

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-G3

<400> 18235

attgaatttt ggaataatgt atatggattt gatatgagct gcataaagaa gcaggcgatg 60
atggagccgc tggtagatac agtggatgca aatcagattg tctaactg ccagttactg 120
aagacaatgg atatctccaa aatgacccca ggtgacgct cctttactgt accattcaag 180
ctggtagcag agcggaatga ttacattcat gctcttgcg cataacttga cgtgtcgttc 240
accaaagcc ataagctgat gggcttctca acagggccga gatcgaaagc cactcactgg 300
aagcanactg ttctctacct ggaggatgtt ataactatct gtcangggga aagcctgagt 360
ggttccatga cagtcacacc caataagagt aaccctcgag atatcgacat ta 412

<210> 18236

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-G4

<400> 18236

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gtgggaacac ttgctgggag gctggacagg tggcacggga gaaattgaag aagaaaattg 120
ctacatacaa aaatggtgtt gttattcgga aacaggaagt tgaaagggca aaagaggctt 180
ttgctaaaga tgaagcagat ttagcaaaat cgaagggcga agagaaaatg ctccaaggac 240
ttgttgataa actcagagag caaaagatat taatagagaa tgcacaggaa gaagagcggt 300
taagataaga gaaggatgat aagagaacat aagatgaagc tgaaaagcaa gctgctgttg 360
aaaagggagc gcttgatgcc tctcgggatg tagattctaa ggaaattcat gatcatctgc 420
aagaag 426

<210> 18237

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-G5

<400> 18237

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ggagtccagg gaggggcat ggattctccg gaccaaggcc ccaagggtggc acaagcagct 120

gcagtgtctgg tgcctcaatt tcaggggcag ggtgacagtc gcatctgtga agaacttcca 180
gctcgttgct gccacgcagc ccgctgctgg agcaccaacc ccatcacagg ctaccccagt 240
gccgcccag caccgagaagg tgatcctgca atttgggaag gtggctaagg acatgttcac 300
catggactac cgttaccacac tgtcagcctt ccaggccttc gcgatctgcc tgagcagctt 360
cgacaccaag ctggcctgcg aatgaagcca ccagtcatgg ctcaaagtca aggacgatc 419

<210> 18238
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-G6

<400> 18238

nggtgacaaa ctggctgggg ttccgcttcc gcaaccgct cgcgcgctc gacatggacg 60
ccgggtcctg gcgcctgagg aaatacgggc tgaggtacga tgacctgtac gacccctatt 120
tcgacctgga catcaaggag gcgctcggga ggctgcctag ggaggtggtc gacgcccga 180
tccagcgct caagcgcgcc atggacctct ccatgaagca tcagtacctc cccgaggacc 240
tgcaggcaca gcaggtocca ttcagaggat atttgagtga catgttggct ctggtgaaaa 300
aggaaagcgc tgagcgtgaa gcaactgggag cccttcact ttaccagaga acgcttnctt 360
aaattgctgg ctaaacadgg ctgcaagtct tctctttacg ccaaatacaga atg 413

<210> 18239
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-G7

<400> 18239

tgtagaatct caggccttcg attgtcgatt gcagcagcag caatgaccat ggagagaatc 60
gtatgagctg cttggccccc ctctgagtc actctgttac agatgcaaga gtggggactg 120
ctgccaagtt gttcatcttt cttgtgagct gtggcatgta tgtataattg aaagatgggtg 180
caggaaggaa ggaaaatgca gcgtccgaca gcgaccggtg agctttgccg gtgagcctga 240
agggttgaaa gcaaagactg acaagaggaa gtgaacaacc gcgcattgtt gtgaggggtg 300

attaggatgg gaaagatttg gcttttagcg tgcacaagtt cacttgccat ggactagcct 360
 ctgtatgttg cttttgcttt ttctgaaata tcgcatcacc tcttttgttg acaaaat 417

<210> 18240
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-F12

<400> 18240

gaaggatcca ttagctctag agttcaaagg ttggccaagt acaggtttct aaagaaacaa 60
 tgggagcttc tgctgagtgc tgatgatctt gatgccatgt gggtttgtct cagagaaaat 120
 tgtgttattg atgatgctac tgggtctgaa aagatgaatt atgaagattt ctgccatata 180
 gccacagtct gcacggagca gattggtcag aaatgcaaac gatttttcag cccttcaaac 240
 ttcatgaagt ttgagaagga tgattctggg aagattgcta tcctaccatt ttatctttat 300
 gtcatgcgaa cagtttctct tactcaagca agaattgata tgagtgagct tgatgaggat 360
 tctgatgggt tccttcagcc tcatgaaatg gaagcatata tta 403

<210> 18241
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-D3

<400> 18241

cgaccagaaa gttgtggatg agaaccttga gaagctgaag aagggtgctag aggtgtgcga 60
 ggcacgccgg accaagtgca agtaccttgc tggagacttc ctcagcctcg ccgacctgaa 120
 ccatgtgtct gtcactctct gcctgttcgc tacgccctac gcatctgtgc tcgacgccta 180
 cccgcatgtg aaggcctggg ggtctgggtc gatggagagg ccgtctgtcc agaaggctgc 240
 tgccctgatg aagccatctg cttgaaacgg ttgccctgtc aatcggtgaa tggaataagc 300
 caagtctgtt ctgggttggt tgcttggtca gtgatgtgtc ttctatgacg aaagttgagt 360
 gcctatgtgt gagcatgctt gcttgtaacg agacattgaa ttgttcggaa atgagcattc 420

<210> 18242
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-D4

 <400> 18242

 atggattggt ccacccggtt cgggacccga aaccgcgtgc cggccgtgtg ccactgtgcc 60
 ggccacaggg ggagtcaagc ggatagggtta tttctccgga ccatggcgtc ggcgggccccg 120
 gtggaggagc cgacggcggc ggccgaggcg aaggggcggc tgaccggtga ctccttcac 180
 cggcgccacc tcaggacct cgccccgtat cagcccatcc tgcccttcga ggtgttatct 240
 gctcgcttg ggcgtagacc agaggacata atcaagttgg atgcaaata gaatccatat 300
 ggtccacccc cggagggtgc tgcagcacta ggtagtctca agttccccta tgtgtaccct 360
 gatcctgaaa gccgccaatt gcgtgctgcc cttgctgaag attctagact tgaatct 417

<210> 18243
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-D6

 <400> 18243

 gcttctcaac cggataggta gcagcggagc aggtagaacg ctgcacaatc cccttggccg 60
 cggccaagat ggtgaacgtt cctaagacca agaagacgta ctgcaagaac aaagagtgc 120
 agaagcacac actccacaag gtgactcagt ataagaagg caaggatagc ctgtctgccc 180
 agggaaagcg ccgttatgac cgcaagcagt caggatatgg tggtcagacc aagcctgtct 240
 tccacaagaa ggccaagacc accaagaaga ttgttctgaa gctgcagtgc cagagctgca 300
 agcactactc acagcagcc atcaagagat gcaagcattt tgagattggt ggagacaaga 360
 agggcaaggg cacatctctt ttctaagctt ctcgtccacc tgtctggttg ttgagttgaa 420
 gc 422

<210> 18244
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-D9

<400> 18244

ttgcctacag ccttccattt cagggctctga aagctgggaa caagaaacag ggatatgtta 60
agatcatcga gaggaaggt gctacttcaa ttgaagctct cttccccgga tattctaccc 120
aaattagttg ctaatttcaa tactttccgt taattaccct tgaaaaatcc cccaactttt 180
aatcccttaa aaaaatgggc aaaaaccctt ttatttcgga aaggtttcaa tttgaatatt 240
gtttttaatt gaccaattct aaattccac attcccacat taaccacggt tcggcacctt 300
ccattggctc caccagttga ccaaactttt ggaatggctc cttttggaac caccatttgc 360
atttaaggcc cttataagga aagaaaaacc cccttgtcaa agtttt 406

<210> 18245

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E1

<400> 18245

actcactctg actatttctc aaagcctggg tcttctgatt ggatggagaa gtatgatact 60
gtttcaatga cactgtctcc aattttaacc taatctcatt tcattaaatc taatctgaat 120
cttactctca tcccatatcc taatcatatc aattcttaat ctcacattaa atttatgata 180
cgagcaaagc caggcatgaa ataatatcaa ttataaagta tcttccttca ccatatttat 240
atgtattgaa ttacctaca ttactcttat acatgtatat gttctactct acataatagt 300
actgttctac attatagaca tt 322

<210> 18246

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E3

<400> 18246

cacgcactcg ggtaaagcta tctcgagcta gctagctgct gtaagccgtt gccatggcca 60
aaatggtggt ggtctgcgtg ctcggctcct tctcctgat gcccttggcc tccctagccc 120

tgacgcagga cttctgcgtc gccgacctga cctgcagcga cacgccggcg gggtagccgt 180
gcaagtccag cgtaaccgcc aacgacttct acttccacgg cctggccggc cagggcaaaa 240
taaaccact catcaaggcc gccgtgacct eggccttcgt gggccagttc ccgggcgtca 300
acgggcttgg catctctgcg gccaggctcg acatcgaggt gggcggcgtc gtgccgctgc 360
acacccaccc ggcggggtca gagctcctct tcgtgacctc aggcaccgtc gccgtcggct 420
tcac 425

<210> 18247
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E4

<400> 18247

gattcccaaa tcccgtaacc atggccgcgc cgccttctcc ttcgtccgc tcccggtcga 60
gcgagggttc cgtaacacaga ttcagcggca ccttggatgt atcatcatcg ccctcaagga 120
ccgagttggt gagcatggtg aagaagcact cacatttgat tgggtggacg attattggtg 180
ccgaggatga tgcatacatg gtgggaatgg atgataaatt ctggcatgaa atgcttgacc 240
tattctttgt gcgtggcagg caatcaaaaa gaagtgaaga ggatgacctt gtcttctttg 300
ttaataacat gaaattgcat gggttatggt tcaatgataa catggaagat ccacctccct 360
ttttgtacg gagatgggct cccacgcttg aaaagatcag tattaatata gt 412

<210> 18248
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-E5

<400> 18248

gcacggctnt cctcctgcct ttggaaattc ttaaaggccg gttagtttga aggggatgga 60
aaatttggtt cgggattaag ggcccgtggt tccaatttta accgattgtc gggggattaa 120
atctgacctg gaccttgctc taatccggtt tgctaataat gtcagttctg aaagctcaca 180

ttgaggttat gagacgagca aagccaggca tgaaggaata tcaattagaa agtatcttcc 240
 ttcaccatgt ttatatgtat ggaggttgcc gacattgctc ttatacatgt atatgtgcta 300
 ctggagataa tagtgctgnt ctacattatg gacatgcngc agctccaaat gaccggactt 360
 tgaatgatgg agacatggca ctaatggata tgggagctga ataccatttc tatggatctg 420
 atttcacatg ctca 434

<210> 18249
 <211> 322
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-025-Q1-K1-E6

<400> 18249

ctcactcttc aaatttctca aggtctgctt ttccggactg gatttacaac ttttttactg 60
 ataaaattac aggtgatcca attttaaccn aatcccttca tcattaaata tcattcttta 120
 ctacctctca tcttatcttc taataatata actcatataa tctcacattg acgatatata 180
 taatatcaac accatgcata aaataatata aactataatg tatactactt taccatgttt 240
 atatatatat aggttcccta catttctttt atacatatat ataaactact ccatataata 300
 tttctttaca acattatata ca 322

<210> 18250
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E7

<400> 18250

cgcgctcga tctctctgc cccgcctgcc tctctgccc tccccgcac ctgcagctgc 60
 ggagagcggg gcaagctagc tgcagaggag cgagacagca ggaggaggat gaggacgaga 120
 ggaagaagag atggcgggct gtgatggagc caagtcgtcg gcgtccatgg aggaagaggc 180
 atgcgcggag aagaagtacg gagggatggc acccaagaag cccttgatat ccaaggacca 240
 cgagcgcgcc tacttcgatt ctgcggactg ggtgctgggc aagcaagccg cgaacagcag 300
 cagcaacagc acgaggaccg catccgccgt tgagtctctg aaaccaagc tgaagcactg 360

atgagactga actcgctaac cgggctgggc ctttctccct gt

402

<210> 18251

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E8

<400> 18251

aggtcattga gcattacaat ttcgcaccgt tgactgccgt tttgtctgtg aactacgctc 60

gatagattcc tgctgacgta tgagttccct gaaggcagag cttggatgac tcagctcttg 120

gcagtggctt gcttgtcttt ggcttcgaaa atcgaagaga cttttgtgcc actccccctg 180

gatttgcagg tagccgagggc aaagtttggt tttgagggaa ggaccataaa aaggatggag 240

cttctgggtgc taagcacctt aaagtggagg atgcatgctg ttactgcttg ctcatttggt 300

gaatactttc ttcataaatt gagtgatcat ggtgcaccct ccttgcttgc acgctctcgc 360

tcttcggacc ttgtcttgag caccgctaaa ggtgctgaat tcgtgggtatt c 411

<210> 18252

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E9

<400> 18252

gggactagtt ctagatcgca acggccacat gcggctgagg tacgaacgaa aacatgaggc 60

ttgtagtgat gcgggtcctg tgtatcgga agatgggacc gcctgtttat ctctgettct 120

atatatcaac tgcgtatcat gatcagctgt ctgcttaccg ttgagtttca tatcagagtc 180

ctagatcatc tgagtattta gttgctttgc ttgcgagatt tacagcacta ttcccgtggg 240

tcgaacgttt cttgcagatg cttgaacttt atgttgctga acggtcctta tctacacggt 300

cacatactct tttgtaacaa aaagcttat 329

<210> 18253

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-F1

<400> 18253

gcggcgacaga ggagaagaag cccgcccgcg cgggtggcccc gattttgccg ttccggccgc 60
tgcaccaggt gccgcccag tacatgcaca tgatcagcaa cgactacatg agccagtacc 120
accgncccc gccgcccgc gtggcggtacc acccgtagcg ggcgcccgc cgcgcgcgc 180
cgcagtacta ctacgtgcgc aacatgagca tggaggagaa cccaaactcg tgcgccatct 240
gctgaagcaa tcgatcccgg ccgctttgtc tgtcgcgtcg cgcgcgcgaa cgtgagtacg 300
tacgtgtctn ccggnccggc ccgccccgc ccgtccatgt gtacatncgt cgtcgtgtta 360
cgttattatt acgatgagaa gacagacgaa tcatactagc tactcgtagc ttt 413

<210> 18254
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-F10

<400> 18254

ccggcgcggg cgtacggcta cgcacacgga catgcgacga actggctctg ctaagttgcc 60
ccatatatct gggtccagga tgaaggcgtg ggggcgtagt gatcacaaa acgctctgga 120
cgccaatctg acgatacttg cctacatcta cgctgaggcc tttacaaaa ttagccagaa 180
cgacacac 188

<210> 18255
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-F11

<400> 18255

ccgacgacta cgacgacggg gaggtagggg acgaatcgtt gcaagcaacg aggtcagaac 60
taaggaggcc gatccatcct ccagcctccg atcccatccg acgacatggt ctgcgtcgcg 120
tgctgtctgc cgctcttctt gatcccggtg gtcaacgccc tcccttacct catcgacctc 180

atcatcagca aggtgtatcg gctatttggga tgggagtacc ggagacctga aagagtccca 240
cctgcatgtc catacaagcc tgcagctcag aagaacgatg aggggtgcgag tgaatcaaaa 300
ccccctggtcg aaccgcacgg tgctgggtgct tgtgctgcgg cggcagagga taagaaagtg 360
gaatgatgca acangcgctt aaaat 385

<210> 18256

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-D2

<400> 18256

acgcgatgct ggaattcgag aggctgggtga aggtgaggca ccaggctcgtg gccgggaccc 60
tgcaccacgt gaccgtcgag gtgaaggagg ccggcggcgg cgaaaagaag ctgtacgagg 120
ccaaggtgtg ggagaaggcg tgggagaact tcaagcagct gcagagcttc gagctcgtcg 180
gagacgccgc ggctgcctga ggcgcacagg cttttcgctg gaggctggag tacaacaatg 240
aaagaattta actgtcatcc cactggaaaa gtatgatata atgaataaac cagcgtctta 300
ccacatgtat tgtaccctaa tgagatattt gaccctgtga atagaatgag atgtgctaag 360
gaatctgaaa gtcttcttgc tttttgttgc c 391

<210> 18257

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B7

<400> 18257

cacctaatga tctggtttgt acctcagatg ttgggcaaga tgatgattgc atacaccacc 60
agaacaatct tgctggccac ccaactatcc acatctgtga cgaggaaaac atgtcttttt 120
tctgacttgg aagacgatga tgtgaaatgg tgtacttgca acttgcaaac cgagatatgg 180
acttttttac aagaaaatgt acaggtctag attgctcctg aaaataacaa ggacaccatt 240
aaaacatgtg gctttgtttt gcaatcaaat ttcttgggtg atgccacttt taaatctacc 300
cccgttaaaa cacttatttt at 322

<210> 18258
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-B8

 <400> 18258

 tcttcaacca acatccgctc ggtagagta cgacaaacta tctgtgtctg tttaaactgt 60
 acggg'gcag cccccactta tctcaacaat taacatacac attacactat catatatttc 120
 cttcattatt cttactccca atcattcttc ttttaacata aatatatcaa actaatttac 180
 tcttatacaa ctctcctttt taccaatata actaatatca taccttaaac tttcttcaaa 240
 ctttatttcc tctacattta cacatctctt ctctccaata taataattta caacacatat 300
 atattcttcc accatcttct ctatcaaata atttccaaac ttaaa 345

<210> 18259
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-C1

 <400> 18259

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 tcaaagtgtg tgcaagatga tgatggcata gacgaggaga acaatcttgc tggccaccca 120
 actatccaca tgggtgacga ggaaaacatg tcttttggcg gacttgggaag aggatgatgt 180
 gaaatggtgt agttgcaact tgcaaagcga gatatggact tgtgtacaag aaaatgtaga 240
 ggtcgagatt gctcctgaaa agaacaggga caccatgaaa acaggtggct ttgttttgca 300
 gtcaagttgc cggggtgatg ccactgttaa agctaccggg gtgaagacac agatgttatc 360
 gctcgagata tggcagagat atggcagggt gctacgtttc actagcatta tcgcttgtaa 420
 tttg 424

<210> 18260
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C10

<400> 18260

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agccataact cttcagatat actggcgctc cacttcattg ctccatcgag ttagactgtt 120
agagtaattt tgattggccg aagcggcggt ctctgccctg gaaggagcgc aacgcttcca 180
ggtactcagc ctcccccagg tcagggcaca tcttgccggt gaagaacaac tccgagtacg 240
ccgactgcca cagcaagaag ttgctgagcc tcatctcgcc gctgggtctg atgaccaggt 300
cgggacagga gaactcgccg gcggcgctcg tcgcgagctt gccggcgatg accgactcgt 360
ccatgtcgtc cggac 375

<210> 18261

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C12

<400> 18261

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tgttttttga cagcaggaac tcatcatgaa tccactaatt gctgctgctt ccgttattgc 120
tgctggattg gccgtagggc ttgcttctat tgggcccga gttggtcaag gtactgctgc 180
aggacaagct gtagaaggta ttgcgagaca gccagaagca gaaggtaaaa taagaggtac 240
tttattgctt agtctagctt ttatggaagc tttacaatt tatggactgg ttgtggcact 300
agcgctttta tttgcgaacc cttttgttta atcctaaaaa agaaaatgag tccttttagat 360
tagatacttt tttctttttt tagtacattg gcatttgctt atgtaaa 407

<210> 18262

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C2

<400> 18262

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atgctcggcc tgtgaaaact tcacgagcga agccgtcact tatctcggca aggaacagac 120
acaggacagg atcatggagt tccttcatga tgcttgctcc caatcattct cctttgaaca 180
gaagtgtgtc gagctgatgg actcttatgc gactctcctg tttgccaga tcacggagat 240
cagaccggaa gcgttctgca aacgggatgg cctgtgcagg gacacagctc ttctctccgg 300
tgtgggaagt gacagcacgt gtgtgttctg ccaccatctg ctcgatgaaa tcatgtccaa 360
actgaaagat ccagatgcgg agtttgagat aattcagatt cttgtcaagg agtgcaataa 420
gatcg 425

<210> 18263
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C3

<400> 18263

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tcagatattt ggcaagacga tgatcacata cactaggaga acaatcttgc tagccaccca 120
actatccaca tggatgacga ctaaaacatg tcttttttcg gacttagaag acgatcattt 180
gaaatcactt atttgcaact tgcaaagcga gatatcgact tgtgtacaac aaaatgtata 240
tgtcgacatt gtcctttaa agaacacaca caccatcaaa acacgtggct ttgttttgca 300
ttcaagtatc ctgggtgatg ccactgttaa agctaccggc ctcaacacac agatgttatt 360
actcgacata tggcaaacat attgcatagt gctacatttc actaacatta t 411

<210> 18264
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C4

<400> 18264

caagcaggct ggcgagagat atggatcctt cgaccgtgca aggcaagacc ggttcgtcca 60
gcgatgggtg gacgcgctga cagaccctcg cgtgacccat gaacaccata ccatttggat 120
ctcctactgg tcccagtgtg acgccgctct tggccagaag ctggcttcta ggctgaacct 180

gaagccgaac atgtaagatc gacgaggaag aaagcaggca ccggtggcca aggttgcaac 240
gcaacatgga gcgtgtgatg ttacaccaa tataattgaa taaacagggg atgtgcgcgt 300
cgtcctactt atgctgatgc tgatggtcgg tgatcggta tatatactgg aacttctggt 360
gtatgctctt ctcttctgga aagacgtaat gtaacgaaga agaattgtgc a 411

<210> 18265
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C5

<400> 18265

gagatgagct gacccttgag ggtgtcaagc agttctatgt gaatgtggac aaggaggact 60
ggaagctgga cacactgtgt gacctgtatg agaccctggc cattaccag agtgtcatct 120
ttgtcaacac ccgccgaag gtggactggc tactgacaa gatgaggagc agggaccaca 180
ccgtttctgc cactcatggt gacatggacc agaactag agacatcatc atgagggagt 240
tccggtctgg ctctcccggt gtgtcatca cactgacct gcttgctcgt ggtattgatg 300
ttcagcaggt gtccctggtc atcaactatg atctccac ccagccagag aactacctgc 360
atcgatttgg tcgtagtggc cgttttggtg ggaaggtgt tgccatcaac ttt 413

<210> 18266
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-C6

<400> 18266

ctggattgct cacagatacc ctgtgcattt ttagtggtt gaggttaatg ttaaggtgga 60
gagtgcaggc acacgtaacg tgcacaataa tgatttctat gctaaagaga agttgctcaa 120
atcaatgcgt gattgtgatc ctctgtctgt gcgccactgg attgtaagag ttgttttctt 180
gttttaattt tttttgttat tctaccatt aaattgggca ttcaatacct gttcattatc 240
cgaatgctta tgcaatccaa taatgatgga aaataactga cttggctgct ctcttgagtt 300

gtggcaacgg aagttctagg ccccgttgca gcactacact gcgctaattg accttcagaa 360
atgagaagct attntacaag ctccagattg acaatgtc 398

<210> 18267
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C7

<400> 18267

ggtacgcgca caaaatgaaa aagaaaaggc gaaggcaaat gaatcccagt caggcaagca 60
aagggaagaa ccagctgctg gggagtgcgg agatatcgtc gcagctgata gaggagcacc 120
tgtccgactc ggacgtacac gtctggcagc agctgtgcga gcacacgtaa cgcgacttca 180
tggtagacct cgacctccac gacagcctac taacgatgac cagactagga cgacgtgggc 240
tacaaccgct cgaccgcgtt cgagtggctg cctcatacca acatgactga cccacacctt 300
aa 302

<210> 18268
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-C9

<400> 18268

cgagtcctac gagcagtcgc acgcaagtgt caagagacga aacggtcgac atggctcgcga 60
cgcaatctgc cgtagcggtc gccgtggtgg ccgcgggtgt gctgctggca gcggcggcga 120
cgacctcgga ggccgccatc acctgcgggc aggtgagctc cgccatcgcg ccctgcctct 180
cctacgcccg cggcacgggg tccggccctt ccgcgtcctg ctgtagcggc gtcaggaacc 240
tcaagagcgc cgnacgaccc gncgncgaca ggcgcgccgn ctgcaactgc ctcaagaacg 300
ccgccagggg cgtcagcggc ctcaacgccg gcaacgccgn cagcatcccc ttcaagtgcg 360
gcgtcagcat cccctacacc a 381

<210> 18269
<211> 423

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-025-Q1-K1-D1
 <400> 18269

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 tccacagaag gctgctccag ccaaagtga gaagcctaag gaaacaaaa aggaggctcc 180
 gaagcccaag gtaactgaga aatcagcaga agaagaggag gcaccaaagc ctaagccaaa 240
 gaaccctctt gatttgcttc ctctagcaa gatgattctt gatgattgga agaggctgta 300
 ctctaacacg aaaaccaact tccgtgaggt tgctattaaa ggtttctggg atatgtacga 360
 cccagagggc tactccctgt ggttctgtga ctacaagtac aatgatgaga acacagtgtc 420
 gtt 423

<210> 18270
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-025-Q1-K1-D10
 <400> 18270

acaaccacgc gccggcagtc gccgtcatgg atcgatcgcc ggaaaaactaa cccctagacg 60
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 aaggtaagg gacaggatgg caatgaagtg ttctttcgca taaagagggtc caccagctg 180
 aagaagctga tgaacgctta ttgtgaccgc cagtctgtgg acatgaatgc cattgcgttc 240
 ctgtttgatg gccgcaagct tcgcggcgag cagacccctg atgagctgga aatggatgac 300
 tgcgaccaga tcgacgccat gtttcaccag acccgaagca gcgttcctag caccacccta 360
 aaacctcggt ttgcttctcc tactgcgtgg tatt 394

<210> 18271
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-025-Q1-K1-D11

<400> 18271

gcgcccagga ggctgttcag gagccggtcc aggagcacca ccatcatcgg cggcggcggc 60
gcggacatct gcgccatggt cgccgagcac gagaggatcg agtgggaggt gcggcccggc 120
gggatgctgg tgcagaagcg gcgctcgacg gaggacgacg cggcggcggc cgtggagtac 180
atcctggtga gagtctccac caccgggtgg cagtggcacg acgtctccat cgacgccacc 240
gcaaccttcg gcgacctgaa ggtgatgctg tcgctggcga ccgggctgtg gccacggag 300
cagaggctgc tgtacaaggg caaggagagg gacgactgcg agcacctgca catggtgggg 360
gttcaggaca gggacaaggt gctgctcctg gaggaccggc ccgtaaa 407

<210> 18272

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B6

<400> 18272

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gagctcgggg tctgcctctc tcccggggaa aggatggagt tcgggaggaa gcccttgagc 120
cttgtggagc tctgcgtgcg gaaggccatc gacaacctcc gctacatggg cagcgtcgac 180
ggcgtcgaga tggatctgct caagcgcacg ctgccgcact gcacgatgga gcagctcacc 240
cgcgtagaga acagcaccga gatggatctt agcttggtaa ctgatccgct gtggaggcga 300
ttctaccagc gagaattcgg tcaggagcat acgagcaaag tcatcgcaag gctgaaggag 360
cttgggcaaa aaacgccgta cacatggagg gagctcttcg cgggcgaaaa agagaaacag 420

<210> 18273

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A12

<400> 18273

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agttgagctt gcaatgcata gatggtctgg gcagttcagc cggccattcc tctttggatt 120

attgaatgat gggacattgt tgtgttatca cgcattat tttgaaggct cagaaagcaa 180
 tgtgcaatgt gctcctttct cacctcatgg tggttcaccg gatattggca atgccactga 240
 ttcaagactc agaaatttga gattttgtcg agtttcaata gatattctcat cagagatga 300
 catatcatgg cttgtacgac caagaataac aattttcaac aatgttggag gttacgaggg 360
 attattttctt ggtggcccaa agccaacctg ggtttttggt tggg 404

<210> 18274
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-025-Q1-K1-A3

<400> 18274
 atctcgcttt cgatcangat tgggttcggt tcgtggttct gcggtgctta tctggttact 60
 gtttatcggt gcggcggggt cactacaaa ttctcttctt catttacctt tatacattgt 120
 agccaatttt atcattgttc ctgctgaggag aaaaatcatg atggttttaa agcagatgga 180
 actggcaaaa ctccacagaa tgaactgaca tgtagtggtt gcttagaaca agtcatgggtg 240
 ggtgatctgt tgagaagcct accatgcttg catcagtttc acgtaaactg catcgaccca 300
 tggctgcgcc aacaaggtac atgcccaatc tgcaagcacc aagtcagtga tgggtggcat 360
 gccac 365

<210> 18275
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A4

<400> 18275
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 tatcaccggg ccgctgagac agaaatgaag tatgacaaga agcacttctt tgatcacttt 120
 cacaaggacc atgactacca ccacttcttt gaccacttcc acaagaagcc tgtgccaccc 180
 aagccaaaac cagagccaga gccaaagcca aagccacaac ctaagccaga gtacaagccc 240

cccatgccca catacgggtc tccaactcct atctaccatc ctccagccaa gaaagaagtg 300
gcatttgaca agaagcactt ccttgatcac ttccacaaag accatgacta ccaccacttc 360
tttgaccact tccacaagaa gctgtgcca ccaaagccta agccggagcc caagcca 417

<210> 18276

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A5

<400> 18276

gctgtcacag cgtggctgac cagcagatcc gtcgttggcg gaaccacgc tcgccggctg 60
cgaatgcatg tgtaggctgc tctgcgtcgg cacggacaat tggacgagct agactctgcg 120
tcgccggcga tgggggtgctc cttctcaggg ctgaacgcac tgtacgacac cgtcggcggt 180
cgggggtggtg acgtctgggt taacgactac cacttccgcg tgctccgcag gctcggcgat 240
gccggccctg cgggctcgtc ggtcttcttc gtcaaggagg tcgtcggcgc cgcaaccgcc 300
tccgacggca cggctgggtc agagcccggc gcctcagga tcgccgggaa gaaaggcatc 360
gacccatcac acatctcagc tgacgggaca tatgctctca agaaagttct tgttcagagt 420
gatcagcact 430

<210> 18277

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A6

<400> 18277

aaaaatgaag ctaggttctg catgttactt tgtgatgtcc agaagaatat gtcaagggaa 60
ccagaaaaga gaaggggcta tgaaatgttc ttcttgagta gtctccttgt ggcaccaaatt 120
agattccgcc catcaactag ctctagtctt ggaattatgg aacatcctca aagtgttctg 180
ctaagtaaag tgcaagaatc caatcttgcg ctacaacatt acaatgcac ttctaaccat 240
atggatgttc ttcaaagatg gatggatcta caacggagtg taaatgtgct atatgatagt 300
agcaaaggcc ttgcaagaag cgagaagaat gtcatggta tacgccagct attggaaaag 360

aaagaaggaa ttcttcgaca aaagatgatg gggaagaggg ttaattatgc atgccgatct 420
g 421

<210> 18278
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A7

<400> 18278

cgaattcccg gtcggccccg cgtccggtat ctcgctttcg atcaggattg tggtcggtgc 60
gtcgttctgc ggtgcttata gtggtttcgg tttatcgggtg cgggggggttc acggtcaaat 120
tcgctgctgc gtggcgcttt tgacattgta gccaatTTTA tcattgctcc tgcgtggaga 180
caaagccgga tgggtctaaaa gctgatggaa ctggctaaac tccacagaat gtactgacat 240
gtactgatgg cttacaacca gtcattggcg ctgatctgtt gagaagacta ccatgcttgc 300
atcacgttca cgtgaactgc atctacacca tggctgcacc aacagggtcc atgccaatc 360
tgcacgcacc a 371

<210> 18279
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A8

<400> 18279

ttcttctctc tctgtctctc cgcgtccgcc tgatccatcc aagacaggga tcgccgtgtc 60
ggactcggag gaggaccact tcgaatcgaa ggccgacgtt ggggcgtcca agacctaccc 120
gcagcaggct ggcaccgtcc gtaagaacgg cttcatcgtc atcaagaacc gtccctgcaa 180
ggttggtggag gtttctacct ccaagactgg taagcatggc cagccaaat gccactttgt 240
cggcatagac atattcaatg ggaaaaaagc ttgagatatt gttccttcat cacacaactg 300
tgacattccg catgtgaacc gtactgagta tcagctgatt gatatttctg aggatggatt 360
tgtgagcctt cttacttcag atggcaacac taaggatgat cttagactcc caactgatg 419

<210> 18280

<211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-A9

 <400> 18280

 gttgcatccc acagtctcat ggcgatgttt acttacagaa gttcatgaaa agacacgtgc 60
 acttgtaagt tgtaaccacc ttgaagaagc taaagtaaaa caacatgtgt tttctctaata 120
 tacaacacat tatgtttctat cattttattg taaccttcac attttctgat ttgaaaacc 180
 tggtaaatgc gtcaaccatc aaactgtaaa ttactaatc ccagtccatg tatagtgatg 240
 ccattatttc gtgtcaacct aagttatgag tactgtgaac agatgaattc attgcctga 300
 tgtgtttctg caagctgcat ttggaatgct actggttgct agatgaaaac ccttgtttat 360
 gcactaatgg ctgctgt 377

<210> 18281
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-B1

 <400> 18281

 gaagaagacg agtgtcaagt gaacctgaaa cttgcggtgt cactggctgg tagcgtgagt 60
 gtgagtgagt gatcgagcta gctgagctcc gatcctcgct agctaggata ccgccataacc 120
 acaagtcttc ttcacaagtt taggagtgaac agcaacaaga gatcgatggc ctctgccacc 180
 gtgctcaagt cctacttctt tcccaagaag tccgaatggg gcgccaccag gcaggccgcc 240
 gcgcccaggc cgaccaccgt ctccatggtc gtccgcgcct ccgactacgc cgatgagctc 300
 gtgaagaccg cgaaaacgat cgcgtcgccg gggcggggca tcctggcgat ggacgagtcg 360
 aacgcgacgt gcgggaagcg gctggcgctc atcgggctgg agaacacgga ggccaaccgg 420
 ca 422

<210> 18282
 <211> 347
 <212> DNA
 <213> Zea mays

[illegible]

gtgaccttgg	gtccgctctg	catgcagtat	gggaggatga	ccgtgccatc	caggagtttc	60
agacagcaat	tgatcgtaaa	cctggccatg	ttgatgcctt	atataatctt	ggtggattga	120
acatggacgc	aggtcgtttt	gtacgggctg	cggagatgta	tactcgtgtg	ctgagcatcc	180
gaccaaacca	ttggcgtgca	cagctaaaca	aggcagtggc	tttgcttggg	cagggtgagt	240
ctgaggaggc	caagaaggca	ctcaaggatg	cgtttaagat	gacacaaaag	gtggaagtgt	300
atgatgctat	ctcacatttg	aagacattgc	aaaagaagaa	gccaaaag		347

<223> Clone ID: LIB3062-025-Q1-K1-B11

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actgcaagg	gcttgtgaac	attgagcagc	agtccctga	tattgctcaa	ggtgtgcacg	120
gccacttcac	caagcgcccc	gaggagattg	gagctggtga	ccaggggcac	atgtttgggt	180
atgcgactga	cgagaccctt	gagctgatgc	ccctcagcca	tgtccttgcc	accaagcttg	240
gtgctcgtc						249

<223> Clone ID: LIB3062-025-Q1-K1-B12

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tctttgccat	ttttgatggc	catttaggag	ataaggtgcc	aagttacttg	aaagctaacc	180
tttttagcaa	cataatgaaa	gagcctctct	tctgggtctag	ccctcaagaa	gcaataaaga	240

atgcatactg ctctacaaac aagtatatattc tagaaaatac caaacaactt ggaccaggtg 300
gttcgacagc agttactgct attggagttg atggtaagga catgtggata gcaaattgt 358

<210> 18285
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B2

<400> 18285

cccaacatca caaccaatc ttctagctct ctcatcccaa ctcaacttca tggaacgttc 60
tcctattcta gctatctacc tatcaaagca tcaattctcg caacaaacc accaccctac 120
cacaactctt ctttccaaac gccatagaca acctaaccta caatcccaac cctaaccac 180
cctacaaaaa tctcttttaa ctcatcctat cctactacac tactcaacaa ctacccccac 240
tagacaacag caccctaatg tatcttatct tagtaactca tccgcttacg aagctattct 300
accatccaca attcaatcaa tagcatacca tcaaatcat ctcatggcta aactaactta 360
gacaaaaaac tccatacaca tcgaatcaac tcttctctc g 401

<210> 18286
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B3

<400> 18286

caacaacacc attttaaagt aaagcttaaa ctctcggatc cactacctcg tacatgttac 60
ctgaataagt gatcaatcta tctcacctaa aatcctcact acctaagata ccccatacc 120
acaattcatc ttcacaacca taagaccaac aacaacatca gatccatggc ctatgccaac 180
gtcctcaaga cctatttcct taccaacatc ctccaatact gcaccaccaa acagctcacc 240
cgtctcaaga acaccaccga catcaatctt atcctcgcca ccgactacgt ctataagcta 300
ttctacaccc caaatccat c 321

<210> 18287
<211> 408
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B4

<400> 18287

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tgcttctagg cggatatgtg tacacaatgc ccacttaca cggctctaac atcaacctca 120

tagtcaccga actagctgac aaatatcagt tctcccatat aaagagggtcc acccagctga 180

agaagctgat gaacgcttat tgtgaccgcc agtctgtgga catgaatgcc attgcgttcc 240

tgtttgatgg ccgcaggctt cgcgggcagc agaccctga tgagctggag atggaggacg 300

gcgacgagat cgacgccatg cttcaccaga ccggaagcag cgttcctagc accacctaaa 360

agcctcgttt tgctctccgt cctgcgtagt agtaaacaaa agggaaaaa 408

<210> 18288

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B5

<400> 18288

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tgcgagggtga ccgacagcct gcgcgcgttc gagatgtcga tgaacacgtg ggcggagtgg 120

ctggagcgcc acgtcgaccg cgcccgacc gggctcttct tcacgagcat ttcgccgacg 180

cacctgcact ccgacgagtg ggaggaggcg gccgggtccg ggagcggcgc cggctaccac 240

cgatgctacg gcgaaatgga gccgatcacg gcggatgggc accgtgggcg ggacacggac 300

ccggcgttcg cgcgcgcggt ggatgcgcat gtggcgcggc tgggcgcgcg cggcgctcgcc 360

gtgcgggtgc tcaacgtgac gcagctgtct gagcaccgca aggacgcgca cccgtacgtg 420

cacc 424

<210> 18289

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F7

<400> 18289

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attgcgatat cctccactag ttgcagtgga tctgtctcct ccaccagcta gaagagaaaag 120
aatttctttg ctgcttgagc tcatagatac ctacaa 156

<210> 18290

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-024-Q1-K1-F9

<400> 18290

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aggaattctg atcaggagtc tgaacccaac cgaatcctct tagttactat ccaccacatg 120
atctatccta taacgggtgga ggttctacat caagtattca aagcttatgg atttgtggag 180
aagattgtca catttcaaaa gtcagctggg tttcaagctc ttattcagtt tcaactcgcg 240
caagaagctg tggaagcatt tggttctttg catggaagga acatatatga tggttgctgc 300
cagctagata ttcaatatcc aaatctcagt gaactgcaag tccattacaa caacgaccga 360
tctagagatt tcacanatcc atcattacct acagaacaac gccctatggc ctcttagcaa 420
gcttatcctg atccagctaa tctctatg 448

<210> 18291

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G10

<400> 18291

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atggatacat atatgtctac acttacactg aactaagct taaggaggcc aagaaattca 120
gagctcatga caactctgtc gacgtgttgg ctgtccaccc aaccgaggcg taccttcttt 180
catcatctgc ttatggcaaa acaataaagc tttggagctg gggcagtgac tcgatcatga 240
actgggtgca aattaaaaca tttaacgtga aacctacata tccggatgga gtgcgcagtc 300

tcagggtttaa cccaagggac accaactt ttgcttgtgt tacgtatgaa gatagagtaa 360
 aggtcgggga cataaaaaat ccttctggtc ttaccacat actgaagggg ccattgaaag 420
 ctgattattg cttctctcat actc 444

<210> 18292
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-024-Q1-K1-G11

<400> 18292

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 ctgcggctga cgcacgggag gatggtgctg gaggtgcggc ccaccatcaa gtgggacaag 180
 ggcaaggccc tggagttcct gctcagagtcg ctgggttcg cggactgcag cagcgtgctg 240
 cccgtgtaca tcggcgacga ccgcaccgac gaggacgcct tcaaggtcct gcggcgccgc 300
 ggccaggacc agggcgctcg catcctcgtg tccaagcacc ccaaggagac gagcgccctnc 360
 tactcgctcc aagggcccg cagagtgatg gagttcttgc tgcggctcgt cgagtggaaag 420
 cgctctcca gggcaag 437

<210> 18293
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G12

<400> 18293

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 cggtgctgc tcagaaggcc aaggcaaaga agtccgccgt ggcgctgct gggaaggctg 180
 ccagcctgc ggcgaccacc aagttccga ccaagcccg cctccctcg cagacggttc 240
 gggatgcacg cggcggtggc tcacagctc gtggaggctt tggccgtggg gaacgtggcc 300

gtggcagagg tggacgggga tatggcaca cgcgggcttc agaggtgaca atggccatga 360
 gttccaagga ggttatggtg gccgatgcta tggggatggt gctgtaactg gtggatctga 420
 aagaaaaagg gagagagaca c 441

<210> 18294

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G2

<400> 18294

aaaagacagg ctacaaggat gatgaggga ctgcaaatga gctctctttt cagatgtgga 60
 cgaatcatat gcaagatacg ttgaactcaa aaaagaaagg tgacaatgct tttcgacaga 120
 aggattttac tgctgccatt gattgctatt ccagtttat tgaaagtggg acaatgggtt 180
 cccaaccat ttatgc 196

<210> 18295

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G3

<400> 18295

gttgtggttg tggtcacccc gactagatat tttccttctg tgggtgatga ttgctatggc 60
 gggcccgcgc tcgagcgggtg tgcggctcat ctgagctgcy ggggccctac ttgggtgggt 120
 gtgccgtgtg cgggtggtggt gagggtgac tttctagtcc ttgtgcgggc cattcgcccg 180
 tgtctagtgg ctctctatg agtatgccag atgtccttag attccggcgc atgtagccga 240
 gctcggcgga gactccgatg ccactgtcgt gaactaaatt accaagggtt gttcgatcga 300
 agaatgcaat tagca 315

<210> 18296

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G4

<400> 18296

gccagtaccg agtcctacga gcagtcgcac gcaagtgtca agagacgaaa cggtcgacat 60

ggctcgcacg caaatcttgc cgtagcggtc ggcttgggtg gccgcgtgct gcttctggca 120

acggccggga cgaccttcga aggccgccat aacttgccgc caggtgagct ccgccatcgc 180

gccctgcctt tctacgccc gcggcacggg gtccggcccc tccgcgtcct gctgtaacgg 240

cgtca 245

<210> 18297

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G5

<400> 18297

acttgcaagt gggctggagc tggttggagc gctggatggc agcaaacct tgggagggac 60

gcaatgggac cgacaaggag agcaacattg atcggggctc cgtcaagaat atgagcttga 120

accttggagt tggaaagggg gagatcacia aagcttataa ccgccgggac tcaaagccag 180

agaagcca 188

<210> 18298

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G7

<400> 18298

ggcttttgag agtgtttgcg tgaaaatgat tgctgccggt gccgaacata ctggtgcagt 60

aactgaatac ggtgacctct acggatgggg ttggggtcga tatgggaaac ttaaggcttg 120

gtgaccgtaa tgaccgtttg cttcctgaaa aagtatatt 159

<210> 18299

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G8

<400> 18299

cccgtagcgg cacggcatgg cggccactgc gtactccgtg gcgctcctcg gcggcgcacg 60
cctgccagcc gacctcctcc ctcgggcag cagcgtgtgc caccaccagc ttgcctcca 120
agacgcaccg aggtctctccc tgcaccgtgc cagggccgct tccgaggaca cttcggcctc 180
cggcggcgcac gagctcatcg aagacctcaa ggcaaagtgg gacgccgttg aggacaagc 239

<210> 18300

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G9

<400> 18300

tctggccttc catcacatac acatagggtt gaatcggagt tagtcgaagt agatctggaa 60
aaggatcccc aaatccatgt tggccccctc aaatataaaa ctgaggagcg tcatcaaaag 120
caggaactga ccccgacc agtttttccg cttattgttg gagtttctgt ggttgactg 180
gtgatcagta tgccaagggt aaatgactta taccagagcg ctgtagggat gacttctctg 240
ggttcaggga tggcaccgac caaaaaggag ccacgcaaga atatattaag aaagagagt 300
taaattggcat attagcttag ccttaggggt cgagaaatga gacatgacaa attgagcaat 360
ttcaacagtg gaatagcttc tggtttcccc ctgggtaat tttgccgacg aaaaggaatg 420
ccagttttgt tgtacgatag cactatgcac agtttttgaa gcc 463

<210> 18301

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-024-Q1-K1-H12

<400> 18301

ggtctggtgc caattgttga gcctgagatc cttgttgatg gccctcatga cattgatcgc 60
gggcgcttac gtcactgaga ccgtccttgc tgctgctac aaggcgctca acgagcacca 120
tgtcctcctg gagggtagcc tcctgaagcc caacatggtg actccaggct ccgactccaa 180
gaagggtgact cctgaggtga ttgctgagta caccgtccgt accctccaga ggaccgtccc 240

tgctgctgtg cctgctgttg tcttctctctc tggtaggacag agcgaggagg aggccacccg 300
 caacctcaat gccatgaaca agctcagcac caagaagccg tggccctgt ctttctcctt 360
 cggccgtgcc ctccaggcga gcacctcaa ggctgnngc tgcaagggtg agaacttgga 420
 g 421

<210> 18302
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-H3

<400> 18302

gaggtcctgc aggagcttgc cgggcctcct cgccgccgac cccaagggtct tcgacaccct 60
 caacggcacc agggacaccg cgtcaccgt attctgcccc gtcgacgcgg cggtagccgc 120
 cttcatgccc aagttcaaga acctcagggc caaggccaag acggccatcc tgctgtacca 180
 cgccgtgccg gactactact ccatgcagtt cctcaagtcc aacaagggca aggaaaa 237

<210> 18303
 <211> 222
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-024-Q1-K1-H4

<400> 18303

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 cgccctgcct ctctacgcc cgcggcacgg ggtccggccc ctccgcgtcc tgctgtagcg 120
 gcgtcaggaa cctcaagagc gccgncagca ccgncgncga caggcgcgcc gnctgcaact 180
 gcctcaagaa cgccgccagg ggcgtcagcg gccttaacgc cg 222

<210> 18304
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F6

<400> 18304

gctggaagct ccagttgttg ttgttacagg tgcattctaga gggattggta aggcaactgc 60
tctagccctt ggaaaagcag gatgcaaggt tctggtaaac tatgcccggg cctcgaaaga 120
ggctgaagag gtctccaaag agattgaagc atctgggtgtt gaggctatca ccttcggagg 180
aaatgtttca aaagaagctg atgtagagtc tatgatgaaa gcagctctag ataaatgggg 240
aacaatagat gtgct 255

<210> 18305

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-H5

<400> 18305

gattccccgg cgcccacctc cgagcgatgg tgcggcgcca ttcacgactg attcacaggg 60
cttcttccga cgcggttggc tccatcttca ccagcaagct tttctataat gcagacgaga 120
gcacttcatt ctgcgattaa atcagcacta gtgttgacata atggtaccta ttgcgtttgt 180
cgtagcagct ttattgggca tatcaggata tgcaggacaa ggaagtgggtg ttagtgatgc 240
tagttcaaag aaggcacaaa agctcaagct ctaaattgat gagaggaagc tgctttaaac 300
tagctattta aatcatagtt gtttttagcaa atctagacgg tt 342

<210> 18306

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-H7

<400> 18306

attccgggtc gaccagcgtc cgagaagttg aaagttggat ttggttcatt tcccaattaa 60
agaagctggt ggggaacatg gactactcgc tatttgttca gacgcttaaa aaggattaat 120
gcatgcagtg acacattggt tcccttatgc tgagaagagg gactgcttcc gacatctcat 180
gggcaactat gtcaaaagct actcaggttc cgaacacat 219

<210> 18307

<211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-024-Q1-K1-H9

 <400> 18307

 gagcaaatgc accttgtgtc tcagcatccg gcaaaatcct actgccacaa cctgtggaca 60
 tgttttctgc tggtaaaagt tgttttttac aatgatcatg tattgagtct tgacagatat 120
 aaattttaca cttgagccat caacagtagt gatgaacctg ccatacctggc ttactttctgc 180
 actagtgaca gaagccttgg tttcaagagt ttggacaatt tttccaattc tcacatccca 240
 tagcctgcac agtaccgtaa aaattaatta aaaaggaaca taactatagt aaatatatag 300
 gccaacccagt ataaatgttt atcattgatt gaagcatttc taacatgcac acaccttact 360
 ccacccatgt cagtgcagga actcaatata gtttggtcac tatgaagcca aggagcagtt 420
 cggacaacca ggtgctttgt caagc 445

<210> 18308
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-A10

 <400> 18308

 caacagaaga gcggcgggtc gtattgagga tgagcaggcc gaggacgagt tgtgccaaag 60
 gtcaatgggt atctcgggtg actcgatgca caatcagccg atccaccggt ggaaagcata 120
 aagcctggag gaagaaacga aagtattagc ttggtcgtca gccaaccaac accaagttgt 180
 caagcaataa gacagttagg aaggccgtg ttcgtggagg taatgtgaaa tggatggctc 240
 ttcgccttga tactggtaac tactcatgga gaagtgaagc tgttaccctc aagacc 296

<210> 18309
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-024-Q1-K1-D11

 <400> 18309

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gatgggattg ggaggccgag accttattgg cattgccgac acaggatcac gcaaaactgt 120
cgctgacgtt cctgctgctg ctgctgatgt gaatgcgcag gctattcatt gccatgacca 180
tagtgcaatt ctcttcgtgt tagctgctac acatagactt gctaataaca tatagcaaga 240
accagggcag aactgctgca tacttctctga ctgaccgtac ttggatatat gtgcactgtg 300
ccaaaagggtg cacaatttcc tgatctttac aaaagtgttg aaattgctat agctacacc 359

<210> 18310
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D12

<400> 18310

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gcctgtacat ccatccacgc tcccccatgc cctcaccacc gccgagtaac acctctctct 120
ccgactccct tgccttgact gattcttaata attcgtcgaa cgataatctc ttattcccct 180
gtcttcaacc gtactgcaat atcctgaatc tatctttgga cttttcccca acgtacatat 240
cggcctaacc tgcagtggct cctaccgtct 270

<210> 18311
<211> 160
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-024-Q1-K1-D3

<400> 18311

attgctgac tatactgtac tagttcatac tttgtgtttt ctagcctttg aaattgggtgc 60
atgtccagtg gctggaccag aaatcttgga nagcctgtac aaaaataata ctcatattgt 120
aaatatatag cttgtctttt tccccccccc tataattaac 160

<210> 18312
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D4

<400> 18312

agaaagtagc ataaacgcta ccatgcttga ggaagggctt gcccggtcgc aaagaagcga 60
gagatgggac actagggaga ggaagacggc tctacagaac ctggaacagt tccaggacaa 120
ggcaaagaag gaaaggctgc ggatttggca gtacggagat gt 162

<210> 18313

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D5

<400> 18313

cggaagacta acagtcatgc acctctggcc ttatcactcc caacgatgac cgggtgctgcg 60
ttaaatactc atacacccaaa agctgatgag ccggatgctg atctaagtga ccaatatgct 120
gtactggtat ctaatcgtg taattacaca gaatcgaaac ttttt 165

<210> 18314

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D6

<400> 18314

ctccactcgc cgcaggccgc cgggcgcgcgc cgaggggatc ggagcaagat gttcttccac 60
atcgtgctgg agcgggaacat gcagctgcac ccacgacact ttcggccgca cctacgcgac 120
aagctcgttt ccaagctcat caaggacgtc gagggcacct gcagcgggcg gcacgggttc 180
gttgtggcga tcacgggtgt tgaagacatc ggcaaggggc taatactggg aggcaaagg 239

<210> 18315

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D8

<400> 18315

acgatcacat acgaacaaaa gcatctcgat ctcacccgac acacgaggaa gaagagatca 60
 agtggcggac gaacagggga gtcgtggatc gcgtgcacac agcaagggct gaatttg 117

<210> 18316
 <211> 182
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D9

<400> 18316

ataaagcacg gaatcttact ttgtcgaacc tatccttttc caatcgcatc gctggcccat 60
 gggattcgat accctgcacc ttattgtcat ctcacagaca ggatcaatga aaactcttgc 120
 ttacctttta cctgtcatta ttcacatcaa tgcgccgtct attcttttcc ccgtctatca 180
 tc 182

<210> 18317
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E1

<400> 18317

agtacgtgga ggagcagcca tggcttcacg ggtggccgcc gcggcgagca cattcctggg 60
 caccgcctg gcggaccggg cgccacagaa cgggcgcacg gtggcccggt tcgggttcgg 120
 gttgggcggc aaggcgaaac ctgctccgaa aaaaggggcc aaaacatcga acctcttttg 180
 accggccggt tgggttcccc gggccctggc ccccgaaatt cttgaagggt tgggtggccg 240
 ccaattacg tttcaaccgg tcgggcttcg gaaggccctg gaggaccttc aattccaggt 300
 ggacttgctt gaacaaaacc ttgccagaa ttaaggccgc cggattattg ggaccgggt 360
 cgaggcttcc caagtcaaat tcaaccggt gcaacc 397

<210> 18318
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E10

<400> 18318

ccagagggtg gcttcaattc aacatcagct tgcattcttg aaacttaaag atgcaccagt 60

cgttggtgcc tttaatcctg tgaagggaga gatagtcctc tcacaattta gccttgacaa 120

ctcctggaac agagctatga ttgttaatgg acctcgctct gtagaatctc taaacgacaa 180

gtttgaagta ttctatattg actatggcaa ccaagagggtg gttccctaca gtcgtctacg 240

acccgtggac ccatctgttt cctcttctcc tgctcttgct cagttatgca gccttgcttt 300

cataaaagtg cccagtcttg aggatgactt tggtcaggaa gcagcagagt atctaagtga 360

atgtttgctc agtagctcaa agcaatatcg ggcaatgatt gaagaacgtg atgcttctgg 420

gggaaaatca 430

<210> 18319

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E12

<400> 18319

ctttccgctt gctttccagt ttgcggcatc agtcgggtggc gcctgcgatg gagtctctgt 60

gcggccaatc gcagcggagg aggagggcgg gcggcagcgg cttcgaatcg ctcaagcgtc 120

tgggtcacat ctcaccgct gtgcagtcct acctcaaaca tgtgtacctc acctatgct 180

ccgcgctggc cttctctgca ctgcggcgct acctccacat cctcctcaac gtcggaggcg 240

ccctcacgac cgtgggatgc gtggcctcca tcgccttctt catctccctg gccgcttcac 300

gggaccagga gaggaaccgc ttggcgctgc tcatgtctgc cgcgctcctt caaggcgcgt 360

ccgttggtcc gctcgtcgac cttggtattg acttggtattc gaggattctc gtcactgcgt 420

tcgtcgggac cgcagttgct tttgcatgct 450

<210> 18320

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E3

<400> 18320

cttttcatgt atgagtatga tagctacttg cccatcactt gcaaggccaa atatgcatat 60
 ttccccagca tttgtctctt tccaatggcc ttggcacaga gtcacttaac aatttagttc 120
 aaatcgtggt ggttcccagc ctgtattttc taattgatta ttttttagttt cgatctaaaa 180
 tccaattctt gcatttggca aaaaatttct aactattttg ttggtatgat tt 232

<210> 18321
 <211> 241
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-024-Q1-K1-E4

<400> 18321

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 ccgcgccttg ctctcttcgc ctctgccaca cgtcaccatc cgctgcaacg gtagggccgc 120
 gatgactccg gcggttcggg tggggaatcc tcgcgcgccc ggtccggggc cgcggtggt 180
 ggaggacgna gaggaggcgg cggtcgcttg gcgggagctg cgcggcaagg cccgcggagt 240
 c 241

<210> 18322
 <211> 116
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E6

<400> 18322

gtcacgtgac ttatattggt gtacgcatta aggtcggcct gaaaaggatc agatcatgtg 60
 tagaaacaat atagtttagt gaaaaattgg acccggcact atgaccaata attatg 116

<210> 18323
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E7

<400> 18323

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 ccgtcgattg gagccagcac cgcgaggtct gttgccgtcg atcgttgatt ggagccgccg 120
 tccgacgagc cgtggggtcg tggccgatgc cgccgtcaat taggggtcat cagtcgctga 180
 ttggagttgt cgcccgatga ttggtggggt t 211

<210> 18324
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E9

<400> 18324

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 tggagggcca gttccagggt ggcaaggagg aggtcatcca agcatgggtac atggatgaca 120
 gtgaagagga ccagaggctt cctcatcacc gcgagcccaa agaattcatt cctctcgaca 180
 aactttccga actaggaata ttaagctggc gcctaaatgc tgatgattgg gagaatgatg 240
 agaacctcaa gaaaattcgt gaagccaggg gttactctta catggacatt tgtgatgtgt 300
 gcccagagaa gttgccaaat tacgaggcta agataaagaa tttctttgaa gaacacttgc 360
 atactgatga agagatacgc tattgccttg agggcaagcg ctactttgat gtgagggacc 420
 aagatgatca gtggatc 437

<210> 18325
 <211> 125
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F1

<400> 18325

gcaactgctt ggagcctccg cacaacataa aaccccacgg gtagtctcgg atctccacgc 60
 gcccaaaaca ttccaagctt attcgatgtc ttgcgcggcg ttctggaatc tgaatcttca 120
 atctt 125

<210> 18326
 <211> 421
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F10

<400> 18326

atggcaggtt caaggacatt ttccaggagg tgtatgaagc tggttggaaa accaaatttg 60

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aagagtgaag gagggatatgt ctgggcttgc aagaattatg atggagatgt gcagagcgat 180

ttcttagctc aagggttttg ctcattgggt ttgatgactt cgggtactgggt gtgccctgat 240

ggaaagacga tcgaagctga agctgcccac ggtactgtta cccgtcatta ccgtgttcac 300

cagaaaggag gtgaaaccag tacgaacagt attgcctcaa tctttgcgtg gacaagagga 360

cttgcacaca gggcaaagct tgatgacaat gctagactac ttgacttcac ccagaagctt 420

g 421

<210> 18327

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-024-Q1-K1-F11

<400> 18327

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atgtccagct gtgtccttca gctcggctgg ctcacatctt tccttcaacg atgaagtagt 120

catggctgaa atggttgtgg tggctgcacc agttgacgtc cactaccctg aatctggcaa 180

accagggtag ctgatcaata atgtcaattg tcgcagtttt catcttcgcc gccatcatta 240

ttttgctgggt tttgtaagtt aagttccagc atttggttagc attgatcatt ttatgagaat 300

tgaggctcca tctagaattt gctgagatgt gatctctcag cctttagaac ggagagcttc 360

catgccttaa gcattgtaat tttgaaccga ggctattggc aatgcaagtt ccccaaaaaa 420

aaaaaatann aaaaaaata aa. 442

<210> 18328

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F12

<400> 18328

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agcattaggg caagttgtct tctgtactgt gagagaaatt gcgtgcatgg ttcggattca 120
ccagaatctg tatacagaga gatctcattt ttcttctgag aagctgaatc cgtatctgtg 180
gaacatgatg agctatagac gccacactgg tatcagtgtc aatattgtcc ggctcactgg 240
acaccatatt gagtagtata gactctgctg cttttagcgt tcgtcatgct tcttttatga 300
actaaacccg aagactctgc tatttgaaga ggtgatgtca agtgtgacat aagacatagt 360
catttttaag gctaatttgg aaatcttatt tcttttaata aaattttatt tccttaacga 420
aatttagtta tttttctt 438

<210> 18329

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F3

<400> 18329

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ggcgatcacc tgcaggcagg tggggtcata gctggcgccg tgcacccgt acgcg 115

<210> 18330

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F5

<400> 18330

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ctcgggggag acgccgtctg cccggggaga cgctcgagaa cctcaagctc ggcatcaagt 120
ccaccaagaa gctgtgcgct gttatgcttg acacgggtgg accggagctg ca 172

<210> 18331

<211> 443

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-024-Q1-K1-A12

 <400> 18331

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 ctgaggaaaa gcatctgaat gagacattca taaaggacag tatccctccc tggttggcag 120
 gatctggtta cattggcctt gcagcaatat cgattgcaac cgtcccaatg atctttccgc 180
 agatcaagtg gtaccttgct ctctcgcat acgttggtgc tcccctctc gctttctgca 240
 actcatatgg cactggacta acggactgga atcttgctgc tacatatgga aagatcggcc 300
 tcttcatttt tgcacatgg gttggtcaga atggcggtgt gattgctggc ttagcagcct 360
 gcggtgttat gatgtccatc gtgtccactg cagccgatct catgcaggac ttcaagaccg 420
 gttacctnac actctcttcc cct 443

<210> 18332
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-024-Q1-K1-A3

 <400> 18332

 atggcaaggt catcgctgct gagtgctgct tgccgggtcaa cacggaggcc accccaag 60
 cgcagggcgt cttccacgtc tacatgatca tgctcgcgca caaccccggc ggcaaggagc 120
 ggtacgagcg cgagttccgc gagctcgcaa agggcgccgg cttctccggg ttcaaagcca 180
 cctacatcta cgccaacgcc tgggccatct agttcatcaa gtgaaccacc gtcgccgtga 240
 tgagatggca tggctgccac aaaccttgct tgcttggctc tcgaatagta cgtcgccgtc 300
 ctgctcttct tct 313

<210> 18333
 <211> 189
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-024-Q1-K1-A7

<400> 18333

gtcatttctg agggaatgca tagtctgtat gtggtttcgt acgtgtgtgt tgggacgggg 60
acttgacat tacatcacat cattcattgc gttcatatac attcatttag acattcatag 120
gatcatcatc atcatatcat agagcacaga catttgcttc ggttttaatg acaaggcttt 180
ggcgaatac 189

<210> 18334

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-A9

<400> 18334

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acgcctccta cgccgggaac gactactacc agcgcaaggg ccggtccatt ggaacctgcg 120
acttcgcccg cgccgcctac gtcgtcaacc aggcaccgaa gatgggcaag tgcgacctcc 180
catcgacgac ggtctgagct gaagcagcag cggcgaggac cgtaacgtca gcggccatct 240
cgaggaacaa aggaatcgat ggcattgcagc agcagctcag ctcatcagtc gccctagaga 300
ctggagactc tgggggacgc cggaatcttt gccaccctt tcagactttc ttaccgctg 360
cagctgcagc ttgactcca gccggagcga cgccgtaaaa cgaacatcg tgtactaggc 420
ggtagctgta cgcct 435

<210> 18335

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B1

<400> 18335

ccttcttctc ccgctccgc agcggctagc gcggctgcgc ccggcgggca ggctcgtcct 60
cgccgcactc ctgcgcggcg agcgcgccgc cgttcccgtc cccactccca ctcc 114

<210> 18336

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B10

<400> 18336

ggcctccccg gcggcagcat tcttggcagc agcattcccc gggttcagcat gcccggcagc 60

ggcagcagcc ttccccgggtt cagcttgccc ggcagcggca gcatgcccct cttcggcggc 120

ggctccccgg gcttcagcgg cttcggcggc atgccccgggt cccccaccgc cggtcccgtc 180

cccgagcagc ccaacaagcc ctgaactccg tctgtccgtc cgatccgctc ctggagcag 240

gtcgggctag ccagcgtgcg tggtagtaga gtgatggtac tgtagtacgt cgtcgtcttc 300

atgcatgcgt gggttcgtgg ttccccctagc tccatacagc cagtagttgg gccttgccag 360

taccgtacgt ctagctagct atatatatag cttgtgttct actgcttttt agtttaatta 420

cctgcctgca ttgg 434

<210> 18337

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-024-Q1-K1-B11

<400> 18337

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gtggtcgcgc accggagccg gagccggagc cggagccggc ggccgtgtgg tggctctccc 120

gttccccgtc cagggccact tcaaccgggt gatgcggctg gcccgcgcgc tgcacgcccg 180

gggcctcgcg attacgtct tccacagcgg cgccctggac ccggccgact accccgcccga 240

ctaccgcttc gtgcccgtga ccgtggaggc ggaccggaag ctgctggcgt ccgaggacat 300

cgccgncatc gtcaccacgc tgaacgccag ctgcgacgcc cccttcaggg cccgcctctc 360

ggcgtgctg gccgcccagg ggagggacag cgtccggtgc gtcttcaccg acg 413

<210> 18338

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B12

<400> 18338

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tacacttgta tcgtactccc agctctcaaa ctgggacaag tgctcctcat gggagggcctt 120
caaggtgtca ccattcaccg caggagcgcg gacattcagc ttcgatgcaa atccatgcga 180
ttacttccag ggtggcaaga ttaaagcaac gacctctcc ctgtcagtct tgggtggccat 240
tgagatgttc aactcaactga atgcctgtc agaggacggc agccttgtga gcatgccacc 300
atgggttaat ccgtggcttc ttctggccat gtcggtttct ttcgggctgc atttcttgat 360
cctctacgtg cctttcctcg ctcaagtgtt tgggatcgtg cccctcagtt tgaacgaatg 420
gctcttggtg gtggcagt 438

<210> 18339

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B3

<400> 18339

caggcctgcc cgaataatcc tcttgcgtat tccctcacg gcaggccaaa acccgcaggt 60
ttagggcgtc gacagattct gaaactcggc gaactacgga catggctcac gtcgccgatc 120
ccgctcccgg attctcttgg cgccgacgcg aggag 155

<210> 18340

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B4

<400> 18340

ccctcccaag tcccaaagcc gccgtcgtcc gccagccac catggccgcg cagtcgtgcc 60
tgctcgccgg cactgacgcc gccaggtccc ccgcggtctt cgccgctccc tattcctgcg 120
cacgcccttt ccactcggtc cacttcgtcg ccggcccgtg gggc 164

<210> 18341

<211> 213

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B6

<400> 18341

cgattccccg tcttctcatt cctcgacatg gagatccagc acgacagcta ctggtgtctg 60
 tttttggcga ttctgatagc gaggggtttc tccaatgccg cgctgggaga gacagcaccg 120
 tcggttgtgg cggggtttggc caattgttgg gatgtgccag gaggaacatg aacgccgagg 180
 cagcttttag aggtctttat gtggccatca agt 213

<210> 18342
 <211> 224
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B7

<400> 18342

gtggctgctt cgctccgtccc acccaatcgc cctctcccct ccgctcccca ggggccagga 60
 ggagcagcca gcccagccct gacgcttctt tcccaccggt tgcaatcgct cccaagcctg 120
 actcggtcgc tggaccgaac acccgccggt ggtgctcttt ccgctgctt tttccggctt 180
 cttcttcgcc gcccgccgcc cgcggggccc ttcctgaagg ttcc 224

<210> 18343
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B9

<400> 18343

acgcaaaaaa aaaagaagcc gttggagcgc ctccctctca aacggcactc ttttactgg 60
 cccgtcctc cgctccctcc tgcatacaaa tcgtccgcca acaattcccc aaaccctact 120
 ccaccacgag atcaccgacc gacgcctctc cgacgagcaa ctcaaccccc caccgcgcac 180
 gcgagagccg gatccccacg atggcgacga tccagcacca ggcgaaaccg gccgtggcgg 240
 cggcaccgag cagcactact ggcgggtgggc aacgcgcgat ggacctctac gagaagctgg 300
 acaaagtcgg agaggggacc tacgggaaag tgtacaaggc gcgggaaaaa gcgaccgggc 360

ggatcgtggc

370

<210> 18344
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C1

<400> 18344

gatttcttgt tgggaaaaaa tcggttggtc agcggattag aggcggagat gggagccggg 60
gctgaggtca tgcattcaggt cgtgccgctg ctggagccgc cgctccaccg gtgcgtcgtt 120
aagagcgtcg atgtcatgga ggaagtgggt gccgtggcgc c 161

<210> 18345
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C11

<400> 18345

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ccctgaccgg agcccgtacc gccggctcct actacatcac cgccgcattc gtctgccttc 120
gtcgccctcg taccaaggtc gatatcgacg agatcgacct caccgaggaa gacgctggct 180
cctctgtcca cggctcctac gcctcttctc catcgatcga agtggttgtg atccgtcacc 240
t 241

<210> 18346
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C12

<400> 18346

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cgttctgcaa acggtatggc ctgtgcaggg acacagctct tctctccggt gtgggaagtg 120
acagcacgtg tgtgttctgc caccatctgc tcgatgaaat catgtccaaa ctgaaagatc 180

cagatgcgga gtttgagata attcagattc ttgtcaagga gtgcaataag atcgaaggtc 240
acgtccagca ggtaggcttt ttggctcttc ctctgtcctt gtgattctgt gcaaaaggcg 300
agctcgctct cttccttaat gaggttctta agagtgtttc ctcagctgta ttggttaccc 360
ttactacttt ggattttgga aacagtcgga gacccttatt agttaacaat atcatagtgtg 420
ttgcaaagat actctacttt t 441

<210> 18347
<211> 111
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C4

<400> 18347

cccgggctca gacttctgct gcagcgcttc cgccgccgct gccgcatcta acgcagttcc 60
ctccgccgca gcccgaggca gggaggttct ccagaacgac atggatctgc t 111

<210> 18348
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C5

<400> 18348

cggacgcgtg ggagcgtgct cgcgaggccc tgcttcctgc tgcatgagg ggagagacgc 60
acctgagcgt gcaggagctg gcggcgtcac tgggcgcgct accgccggag ttcgtgcggt 120
ctgagcagga ccagccgggc gcgaccacgt accgcggggc cagcgtgccg gacgcgc 177

<210> 18349
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-H9

<400> 18349

gaattcccg gccaatattc aacaagagca cgagatttga agacatgagg agatatgatg 60
atgaaaaagc accttacagg cgccacagg tgaagaaacc atcaagtagc tctggaatgg 120

aatccagaga tgatgatgtt gatgctgact ttccacaacg caagtctggg caaagtagtt 180
caaggcagca tgcttctagg ccagaagcct cgcctttgga ctttgtcatt cgtccacagt 240
ccaaaattga ccctgagcag atacgagctc gtgctaagca ggctgtccaa gaccagcgtc 300
ggctgaagat gaacaagaaa ttgcagcagc tgaaagcgcc caagaagaaa aaccttcagg 360
cgtcaaagct cagcgtggaa ggccgtggca tgatcaagta cctgtagatc acccactgtg 420
gcatccgcag tcagcagtgt cctgcacatg atacagcgcc tgcagggatt gctgaat 477

<210> 18350
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C7

<400> 18350

ggagaggccg agaagcgctt tagccgtagc cgtagccgta gcgataagag tgagctagct 60
ggtgcacacc ggcattggcg ccacggcgta ctccgtggcg ctccctcggcg gcgcgcgcct 120
acccgccgat ccgcgctccg cctcctctcc tccggcgcagc gtctgccagc ttcgcttcca 180
agatgcaccg aggttttacc tgctccgtgc gaaggccgtt tc 222

<210> 18351
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C8

<400> 18351

acggtatgga cattgctaga gttacattac atcatcacta gtatatataa ggtggactgt 60
tatttgtaag cctaataaaa gtgaataatt ggatgcgtaa tgtaagccta ctctactata 120
tatatgattg ttttggaata tgcagggagt gtgttacttg actatcccca atcacactca 180
taaaaacttg 190

<210> 18352
<211> 181
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-024-Q1-K1-D1

<400> 18352

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acgcgaatct aatcgacacc tagccgagat gggccgcaag ttcttcgtcg gtggcaactg 120
gaaatgcaat ggaaccacag atcaggtcga gaagattgtc aaaaccctga atgaangaca 180
g 181

<210> 18353
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G10

<400> 18353

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tcatccaaac agcattagag caatgtgtgg gctggactct gagaaaaatt gcgtgcatgg 120
ttcggattca ccagaatctg cagacagaga gatctcattt ttcttcggag aagctgaatc 180
cgtaactgtg gaacatgatg agctatagac gccacactgg tatcagtggc aatattggcc 240
ggctcattgg acaacgtggg agagtatcga ctctgctgct tctagtgttc gtcatgcttc 300
ttttatgaac taaaccgaa gacgctgcaa tttgaggagg ggatgtcagt tgtcacagag 360
gagagagtca tttttagggc tagtttgaa atctcatttt tttcaagaga tttttatttt 420
cctaaaggga attagtttaa ttttc 445

<210> 18354
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G12

<400> 18354

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tggtggattt cctccgcccc cgaacgatcg atcttttgca tggcagcagc ggctagctcc 120

aaggggcggg cgatcgctgg gagcttcgtc agccgcgtcc tggccggcaa ggccgccttc 180
 ccgaggaggg ccgtgcacgc ctctgtgtac gacaagaacc ccgaggagca tgtgcgccct 240
 gtgatactgc cggacaatgt gatcggcggc gcggggagcc ccgacaagta ctggagcccc 300
 caccccaaga ccggcgtggt cgccccggcg gcggttgaca ccaaccagct gggcg 355

<210> 18355
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G2

<400> 18355

aggcagcaca gtcacctacg aactcgatgc tcttagctgt atctcctctt gttaaggggt 60
 gtggtcttgg taggagtaac aatagtttct ggcagccgtc ttctcctctg ctctctaccc 120
 taggagagga gaggagagga gaggagagaa atcctgatgc taatcttctc aagacgcata 180
 aagcgtgcct atatacaatc gactaaacac aga 213

<210> 18356
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-023-Q1-K1-G3

<400> 18356

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 cggcggtac ggtggtggcg gcggcggtta cgggtggtgt gccggcggtc acggcggtgg 180
 caaccgtggc gccgggtacg gcaactccga cgggaactgg aggaactgag cgggtgngcc 240
 cgcgcgcca aagtatctg ttcgctaacc ggggtggtta ccttaatcca aatgggttaac 300
 tttggtcggc ttgggggttg tgggtggccat ctgggggttt gaatggaagg cgctttgggg 360
 caattggtg 369

<210> 18357
 <211> 368

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-G4

 <400> 18357

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 ctgcagctgc tgcgatactg gatcggcaca gccggttctt gatgtggagg gagcggcggc 120
 gggcgctgct cctgctggtg gccggcgcg cgctgggact gatcggtgcc gcgctcgca 180
 gcgcgccgtc ggaggccgcg ctgaaggctg ggttctacca tgcgacgtgc cccatcgcg 240
 aggacgtggt cctcgccgag atgaggctca tgctcatgga ggacgccacg gtcgcgccgt 300
 ccctgctacg gatgcactac cagactgct tcgtgcaagg ctgcgacagg tcgatcatgc 360
 tccagtcg 368

<210> 18358
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-G6

 <400> 18358

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 ctgctgctgg tcctctccgt ctcgtcctcg tcategtcgt cggctgctgc cacgctcgcc 120
 gtcagcgctc cgccccact gcctgttcct cctcctcgtc atgctcaaga cgccgaaggc 180
 atgctcatca acggcaactt cgagacggcg ccgcggaagc tgaacaagac cctgatcgtg 240
 gggcgccact cgctgccggg gtggacggtg caaggccacg tggagtacgt ctcgggcggt 300
 cccagccccg ggggcatggt cttcgcggtg ccgcacggcg tgcacgcgt gcgcctcggc 360
 agccgcgcgt cggcgctcga gaacgtgacg gtgcggccgg gggcgctgta cgcg 415

<210> 18359
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-G7

 <400> 18359

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atctgacgac ggaagatggg tcattttact cctattttatt gctacgttgt gtgtatgtgt 120
tatgcagcta tgctgtatgg cttatgggta tgagcgccac aaatttggtt gtcaagattc 180
tggatgatat acttatgcat tctgacataa taggaggcaa aacctcaaga ttttccttat 240
ttttatttta tcaattacag cattttctg 269

<210> 18360
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G8

<400> 18360

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attaattggc ggctagctag ctagecgggct ggggctgctg ctatcctgga tcggcacagc 120
cggttcttga tgtggaggga gcggccgctg gcgctgctcc tgctggtggc cggcgcgggc 180
ctgggactga tcgggtgccg gctcgcgagc gcgccgccgg aagccgcgct gaagggtacgg 240
ttctaccatg ccacgtgccc cate 264

<210> 18361
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G9

<400> 18361

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aagtacactg cacgcaatgg ccaccacggc gaccgaggcg gcgccggcgc aggagcagca 120
ggccaacggc aacggcgagc agaagacgcg gcactccgag gtcggccaca agagcctgct 180
caagagcgac gacctctacc agtacatcct ggacacgagc gtgtactcgc gggagccgta 240
gagcatgaag gagctccgcg aggtcaccgc caagcaccca tggaacctga tgacgacctc 300
cgccgacgag gggcagttcc tgaacatgct catcaagctc atcggcgcca agaagaccat 360
ggagatcggc gtctacaccg gctactcctt cctcgccacg gcgctcgccc tcccggagga 420

cggcacgatac ttggccatgg aca

443

<210> 18362

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-H1

<400> 18362

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acgcgtacga cggccacaac ctcacatcc acggctacca ggacctcctc ttcgagaagc 120

actcctggat tgcactcaac accggcagct tcctcttcag gaattgccag tggtcgcttg 180

acctcctgga cgcgtgggag cccatgggac ccaaggggtt catccgcgat caggcgggca 240

aggtactcac ggcaaacctc aagggccggc cagcatttga ggccgacgac cagtcggcac 300

tgattaacct cttgctctcg caaaaggcca agtggatgga caaggtgttc attgagaatt 360

cctactacct gcatggcttc tgggctg 387

<210> 18363

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-H10

<400> 18363

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gttgcgctac cagctggata tccgttcttt tgatgagctt tctgatgatg acgatgtgta 120

tgaagactct gactagcaat cagccaatct catgcctgtg ctggcccatg gaaggacgca 180

acagctcgac ctcaccatac ctacgcagga gcacacgaaa agcaactatc caaggattaa 240

tgggcatggg ccagcgtcgt cctcttcaag aggagcttaa gactaagatg attttgagtc 300

acaatcatgg gagtaacgtg acaagaagat accctactat atcacaatta ttccagtaat 360

gcgtcgagaa gataccgttg tttaagtga caaaccaata cagtgcgtg ccaagaaagt 420

accgtatattt aaagatgttt aattttc 447

<210> 18364
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-H11

 <400> 18364

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 tcggcgggcac cggcaagttc aggctggcgc gcgggtacat gcttttcaag atgataagca 180
 agccgacgcc ggagactgac gtcaacgaga tcaacctgtt cgtgctcatg caccgcgtg 240
 gcaagtacta tcgcacacac cttgagactc gagtgagtgg ctactaccgc attgttgttg 300
 ggacggttgg gtgaagtgtc tatggccaat ccaactcttt cagatttggg tctcttgggt 360
 aaaccaata aacatgcaac ttttttg 387

<210> 18365
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-H12

 <400> 18365

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 caccgttctt gtcttgacca ctggcgatct gttaaggaag gatttgcatt ttcacactgc 180
 acaacttgca aagctcagtt tcattcttga gtggaaacct gggaggataa ctcatggcgt 240
 aaaatgaagt tcacgggtctt tgttgcaagg gatgttctac tcgtatttct tgctgtacag 300
 cttactattg ctatcatcgg tgcgattgca tacttttttag acagggatgg aagtttccgg 360
 aacagtttta gcgatgggtg ggaccgcttc ttgtcaaagc acccaatacc cttctacta 419

<210> 18366
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-H2

<400> 18366

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tacgtgaacc ggcacaaggg gctaatactt acgtgcaatg gtcttggtat aagggtactca 120

gtatggtgaa cacgctcaag ggcccacagt ttgcactcat ctgcagtctt ggagaatctg 180

taatgtgggg ccagtgggga tgaaaataat ttctgatgac atacagggaa gcctttgatc 240

tgaaaatggt atagtgcac agtgccatgt ttgaaagcca aatattgacc acttgagtgc 300

atcctacaag ggtacaacag agttgatttt tatttgt 337

<210> 18367

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-023-Q1-K1-H4

<400> 18367

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gaggcagctg gggagcctga agctgcaggg cgaccaccac cagggcgcgg gcgacgacgg 120

gcggcgcctg gtggcgcgca gcaacagcgt ggccaaccag agcagccgga tgtcgctgtc 180

gtcgcggtcg cggaggatct ttgacaggct gtgggtcggc ggagcgaagc tgccccggga 240

ggccgncgcc gcgggcaaag ggtcgtcgga cacg 274

<210> 18368

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F9

<400> 18368

gcacggacca tggacgcacg tcttctctggg cttatctatc cttgggcctg ttccgcttgg 60

ccggtgaaca tgaactgcat ccgtggcaga gtgcgaccgc tgctgcagct gctgctgaat 120

caagtcatgc aactgcatgt cccttaactt ggagaccgcc gcccttagca gcatcacgac 180

catagcccta gctgcgcg 199

<210> 18369
 <211> 342
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-023-Q1-K1-H8

<400> 18369

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 ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc aaccaccaca 120
 agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag gtggtcaccg 180
 ccaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac aagcacaagc 240
 agcacctcgg cgaggccggc gccatcgccg ncggcgccct cgcaactctac gagaagcacg 300
 aagcgaagaa ggacccccgag cacgcgcaca agcacaagat ca 342

<210> 18370
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-E2

<400> 18370

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 cacatccct cctgtctcg gttattctc gttgcgtgcc ctgcgccgag acctctgcc 120
 tggcggacca gtcaccgac gagcagatcg cggagttcaa ggaggccttc agcctcttcg 180
 ataaggatgg cgacggctgc atcactacca aggagcttgg aacgggtgatg cgctcccttg 240
 gccagaacct taccgaggca gagctgcagg acatgatcaa cgaggtcgat gcggatggca 300
 atgggacct cgac 314

<210> 18371
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-E3

<400> 18371

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atacttctcc tggaaggcat cagccatggg aaaaaatgtg tcaaagcaa agacatttct 120
tgaaaagaga tacacagagg atatggagct tgatgatgcc atccacactg caattttgac 180
tttgaaagaa ggatatgagg ggcaaatttc ctccaacaac attgaaatcg gaattattcc 240
aactgaccct gaattcaaag gtctaagccc atcaaaaatc aaggatttct tggaagaagt 300
ggaataagtt ggctggtgat gatttactgg ttcaaaccag aatagcagca tcacttatga 360
gcagccagcc tgaaacttgt cttgggttta tcactctgta aactgaattg ctccagcgac 420
atg 423

<210> 18372
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-023-Q1-K1-E4
<400> 18372

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gcgccgagaa gcgagcaaat actgttgagc tgatgaagaa gatgccccag atgctgctcg 120
actacaagaa acgtaggtgg gagaagaaga tgaaagtgga ggagagcggc aagaattgat 180
accacgcggc tcgtccaggg tgcttctctt cctaaataag gtccaaactt tatccaggag 240
ttttgcagga cggctagatt ctgacgcgtc attcccttgg tggattcctt ctctcctgtg 300
aagcgacttt ggacgcacta tcttgattgt gatgctttca aacacttgtg ccaactggatc 360
gggatttcag tgagccccaa ttttgcagca ctagtatttt gttgagacaa atcagctata 420
agca 424

<210> 18373
<211> 395
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-023-Q1-K1-E5
<400> 18373

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atttgtaactc ttgattcttt ggttccatgc tctcttcggt catcttcatg ttaatttgct 240
 ttgcaaacca tttaatatta acagtgcgct cccctggaaa tttccaaatg gttatatgcc 300
 ttttgactat tggaatttgc attataattt gcaaaccaaa aaaaaccctt ctttataaac 360
 tacacacttg aaattcgaat ttaaaaaggg caa 393

<210> 18376

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-E8

<400> 18376

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 tggacctact atcaggactt gcagaaggct ttggcgctgg tattgaaagt cttggtgcac 120
 agagcaattt gagagatcta cttttgcaat gctgcatgga tgaagcagct gatgttcgac 180
 aaagtgcctt tgcaacttctt ggagaccttt ctagggtttg cccaatacat ttgcatccac 240
 gccttcaaga atttcttact gttgcagcga agcaactgaa ccctcaatct gtgaaagatg 300
 cggtatcagt agctaacaat gcttggttggg ctattggaga attagcaatc aagattggca 360
 aagaaaatagc gcctgtggtg atcacggttg tttcgtgctt ggttcccatt ctaaaatccc 420
 cagaggggtc ga 432

<210> 18377

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-E9

<400> 18377

agacaagaaa acacctgtat caagccaaca accgtctccc tgtcacagta caaacactca 60
 tcaccactcg agcactccac acaagagtaa gcacgcaaac gacaagctct tttcatactt 120
 acaggaagct tatcttttggg tcagggttag ggatttctgt atacaccaac tgcagcgact 180
 gcaggtaaga ggggcccgtc ctatggttga tatgcactca aaaaattaca tgaatcagct 240
 aactcagtg aggtcgatcg agcagattag gaaacgcttc acaccagca aatgggttaca 300

gcttttatta cctgtaccac agtctccggt gagaaaacat gaagccgtgt gatgttagtg 360
accaccaacg tggcgaggca aactggtcta caattgtgtc gggctctgct tttgggta 418

<210> 18378
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F1

<400> 18378

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gctgaatcct gtgaattttt ccatgacca tccatgaaat caagtaatga aggaacggtg 120
aaaaaatcgc tgctgatcac tccacttggc agtgacagtg gatactttgt taatataacc 180
gttgtgaaca gtgcaaaaag gactaatgat cgtctttcaa tccctattac aaaaacttaa 240
tttgggtgga tcccgacaaa ttttaatttt ggattggcac atattattgg ttgggaccaa 300
gctttaacca attaacattc aacttcaagt tcttcaactt gcaacaagcc caccgtagaa 360
cgttcacacc cggatttcga atgggaaaag tgaaacttcc ttttaa 406

<210> 18379
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F10

<400> 18379

ttccagcttg tttcattatt ctgtggcgcc tgcgatagac tgggtggggg gccaatcgca 60
gcggaggagg acgccactca tctatgacct tcgaatctat cacacttaat agtcacatct 120
gacccgctgc gcattgccac cttaaacadg tgtacctgac cctatgctcc gcgctggcct 180
tctctgact ctgcgcgtac cttcacatcc ttctcaacgt ccgaggcgcc ctaacgaccg 240
taggatgcgt tgccctccatt cactttctca ttttctgccc ccccttaccg gaccaggata 300
ggaacctctt 310

<210> 18380
<211> 453

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-F11

 <400> 18380

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 gaaatttggc cggcttattc ctgacgggtgt tgctatcaga agccgaaagg agactggtgg 180
 ctattatgct ttcgtggaat tcgaggaact cagcgggtga cacaatgcgt taaaggcttc 240
 accaattgaa ataaatgggc ggcagatata tgttgaggag aggaagccaa atagcgggaat 300
 aagaagtgga aggaggggag gacgtggccg tttcagtggg ggaagccggg gatattcgag 360
 aggtggaagc gacgagtaca atagtaaccg tgggaggtca aacggttacg gtcgtgctcc 420
 taacaaaaag aggggcatac ttgggagcca cac 453

<210> 18381
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-F2

 <400> 18381

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 gctatcgga cttgcacaat gtctttactc tcttattaaa agtcttggtg cacaaccat 120
 tttgagagat ctacttttgc aatgttacat tgatcaagca tctgatgtct tacaatattc 180
 cctcgcaatt catttacacc tttctaggaa ttgccaaata cattttcatc cacaccttta 240
 agaattttct ac 252

<210> 18382
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-023-Q1-K1-F3

 <400> 18382

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 ctgcctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180
 ctcgagtcca agatcctcct cgatcgggag acgcataagt ccccggtt tcgctttggc 240
 acctttttca acgaagaagc caatccggac cgccttcaag gccttaaccg gaaggaacct 300
 gaccggccca acattac 317

<210> 18383
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F4

<400> 18383
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 agacttcgag gccgccgtct gcctctgcac ggccatcaag ggcaacgtcc tcggcgctcg 120
 cttcgatgtc cctatcaagt tcaatgcctt cgtcaactac tgtggcaagt gcgtgccccaa 180
 gggctacatg tgtgcgtaag ctccgcgcgg ttacacgtc gtagccgttc gcgtgcgtaa 240
 ttaagcatgc acctgcatgg cacacatgta ttgtgcgcct gctgatctct cctgtctcat 300
 ttgggcacct taagttctac agtcctagaa ccatattcca aggcaattct tggcagttca 360
 catgtattgt ctcttggtga atttctattt ttt 393

<210> 18384
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F5

<400> 18384
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 aaactccacg agcgggggaa gaggggaaag cagggacgac gagggggcag ccatggggca 120
 gcagtcgctg atctacgcgt tcgtggcccc tggcacggtc atactggccg agtacacgga 180
 gttcaccggc aacttcacca ccatgcctt ccaatgcctc atgaagcttc ccggaaggca 240

ccaccagttc aactaacact ggcaacggca caatttcaaa taacttgtgg aaaaacgaat 300
caaaaaacgg ggtggtggtg gtgaatcggt tgggccacca attcctaata gttt 354

<210> 18385
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F8

<400> 18385

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gcttgcgcaa ttgtatgtat gccctgtact tgcgcgtgta tgggtttcgc tgtgcaaatt 120
ttcgttggtt cccccgattg attgagggct gtgtgcgtgt gtgtctcttc tgaatctgaa 180
tggaatatct gtaacctgag ctaaaactgc tcgtgtacta cccaatagtt gcttcaaact 240
acgatggatt tttttttcaa actatcactt ccaaacacgc acaaatatgt actgtatttc 300
tcaatcaact aaggatcgga gaaactgggt tgtaaagggg attttgtaaa caccagtcaa 360
tcagacatgt aactcgacat gggccta 387

<210> 18386
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-E11

<400> 18386

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actttatgac atttgcttcc gaactctgaa gctgacgacc cctagctttg gagacttgaa 120
ccacttgatc agtgcaacga tgagtgggtg cacttgctgc ctccgcttcc caggacagct 180
taactctgac ctgcgcaagc ttgcagtcaa cctgatcccg ttccctcggc tccacttctt 240
catggtcggc tttgcgccac tcacctcgcg tggctcgcag cagtaccgtg cactcactgt 300
ccctgagcta acccagcaga tgtgggatgc caagaacatg atgtgtgctg ctgacctcag 360
ccatggtcga tatctcacag cctttgtcat gttccggggc aagatgagca ctaaggaggt 420
tgatgagcaa atgattaatg tccagaa 447

<210> 18387
 <211> 112
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-C5

 <400> 18387

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 gggcccaaac tcaggcaaag atctatggcg aagacaaagg aagagacacc ga 112

<210> 18388
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-C6

 <400> 18388

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 cgaaaaagat gccgccagct ctgcgggcgaa cgatcctgct ggccgcggcg gcggcgacga 120
 cggcgggtgct gctgctgtgg ccggccgtct gcgtcgcgga cgacgacggc acgacgttcc 180
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 cggcggacgc ttgcgccgag ccacggctgc cgggtgctcgc tgggatctct gatctattgg 360
 cggatttgca gagacttgct cgcgggttgct gccctggact ggatgcat 408

<210> 18389
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-C7

 <400> 18389

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 gcgccggctg ctggctctgc tggacgacct ggccgtgcgg tcgtcgact cggccttctt 180

cggtctcgctc caggcgcgcg ggttcgatct cgaattcgcc ttgcccacca acccaagctc 240
 ttggttgaac cgttcggggc ggacccttac caaggccttg ggccggtcgg ccccttcaac 300
 ccaaggtttg ggggatccat ggacccaaac cccagtcttg gaattaatgg agcctggcct 360

<210> 18390
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C8

<400> 18390

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 tacagtatac tgacaaactc ttggacacga ggtgaggtga tgaattcttc tcggtgtcta 180
 tttgggtcag caagcgttgg ggagaacgca tatgttgctg gtggcactga ttcttttggc 240
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 agcatgaata aggcacgtaa aaattgctct ggggtgttaa taaatggcag gttttgtgtc 360
 attggtggtg tgacaaacaa caacatgatc t 391

<210> 18391
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C9

<400> 18391

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 atggctcaac accggcagcg caacttccag tcgtttgcaa ggacgtggct gcctctcgcc 120
 gatatgatct tgatgtgctt cgccgcttgc acgacggcgc agcagcaacc accgtcactg 180
 acgcagtcta cgacaacagg cactgtaccg ataccgagcg tgccagcgtg cctgccaaacg 240
 caggccacgc tgtcgccgtg cgtgagctac ctcatcggca actcgatgta gccgatcacg 300
 gagtgtgcg accagatact ggccatgttt cagtctcagg cgccctgctt gtgcgccgct 360
 ttggcatctg cgggtgcccgc ccatgcactc gggtagcgcg tcggtcagct gctgc 415

<210> 18392
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-D11

 <400> 18392

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 ggcatcgaga ggccgcgacc ttattggcat tgcagagaca ggatcagga aaactcttgc 120
 ttacctttta cctgccattg ttcattgtgaa tgcgcagcct attctttccc ctggcgatgg 180
 tccaattgtc ttggtgtag ctctacacg tgaacttgct gttcagatac agcaagaagc 240
 aaccaagttt ggtgcatcat caaagataaa aagtacttgc atatatggtg gtgtgcaaaa 300
 aggtccacaa gttcgtgatc ttcaaaaagg tgttgaaatt ggtatagcta caccaggacg 360
 actaattgat atggatgaat cacatcatc aaacttgcga aaggtcacat a 411

<210> 18393
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-D12

 <400> 18393

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 ggaattccat accgtgctcc gccacctctg ctgagagcga gaagagatgg caggcaaggg 120
 tgatgggccc gcaatcggca tcgatctcgg cagcagctac tcttgctcgc gctctggca 180
 gcacgaccgt gtcgagatca tcgccaacga ccagggtaac cgcaccacac cctcgtacgt 240
 cgccttcacc gactccgagc gcctcatcgg agatgcggcc aagaaccagg tcgcatgaa 300
 ccccatcaac accgtctttg atgccaagcg tctcattggc aggaggttta gtgactcctc 360
 tgtccagagt gatattaagc tgtggccctt caaggtcatt cctgggcccgc gtgagaaacc 420
 aatgatagtt gttcagcaca aggtggagga gaaaca 456

<210> 18394
 <211> 414
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D6

<400> 18394

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atggcgggcg tgcgcgtgag cgggaggctg cggacgctgg ggcgcgggcg gtcggggcgcc 180

gtggtgtcgc tggcgtggga cgccgcgtcg ggggagctgg tcgcggtcaa gtcggccggc 240

gcgagcgggc cggcggcgct gaagcgggag cacgcggtgc tggccgggct gcgctcgccg 300

catgtcgtgc gctgcgtcag cggcgggcag gcggcgggcg cggaagaggg gtcttcgtac 360

cagctctttc tcgagtacgc ccccgggcggg tcgctcgccg acaagggtggc ccgg 414

<210> 18395

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D7

<400> 18395

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gtgaattgca gcttaatttg cttcactccc ctctatcttt ttattacctt ttctcttttt 120

gcaaagcaat attctcctta caatgtc 147

<210> 18396

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D8

<400> 18396

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agatgttcgt cctcgccgcg gacggcgctg agttccacgt cgacaagatc ccgtcagctc 180

ctggagggtca tgtgaaaaca aaaggcaciaa ttacctgtc caatataagg atggtgtttg 240

ttgccagcaa gcctgttggc aacttctttg cttttgatat gccacttggtg tttgtgcatg 300
 gtgagaagtt caatcagccc atatttcact gcaacaacat ctctggattc gttgaaccag 360
 tcgttccaga caatcagaac agggccctgt actcaactca caccttcaag atct 414

<210> 18397
 <211> 463
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 18397

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 tacaaaagct aggacacctg atgttgaaga taggggtgaa cccagtacaa aagattccac 120
 tgctgcagca atgaacattt ctggagaagg ccctttcata aataataaaa caaattgggtt 180
 agcaatacag aggcaattgt cacacttgga gaggcagcaa actagtctca tgaacatggtt 240
 gcaggatttc atgggagggg ctcatgacag catggttaca ttggagaaca gagtacgtgg 300
 tcttgagaga gttgttgagg aaatggctag agaaatatca ctctcctcag gcaggagaag 360
 tgggtgtcca gcgttgggct ttgattcatc tntctggcaga tcatctaaac acaatgggtt 420
 ccatgaatat tctaattcga aatatggaaa gaagtgtgat gga 463

<210> 18398
 <211> 236
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-023-Q1-K1-E1

<400> 18398

acctgnacag aataaatcaa tccctggctt cgccactgag agagaatatc tcccgaat 60
 catagggcca ggaaaaactt tccagtcaac taaagttggc gacatcatga ctggagagga 120
 caaactgata acagtgaatc ccgacaccaa agtcctgcag gcaatgcagc tcatgacaga 180
 aaaccgcgtc agacacatcc cggatgatcga cggcacgggg atgctgggga tgggtct 236

<210> 18399

<211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-E10

 <400> 18399

 atcgcagctc cgctgccctg ctctccacct tctccagacc tccaccatgg acgagccgcc 60
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 cgcccttgcc ttgacggatt cgaataattc gtggaagaga agttcttatt cccttgccctt 180
 cagccgtact gcggcggcgg aatctctctc tggacttctc cccgatgtcc gtggcggccg 240
 agcaggaggt ggcgccggcc gtcgtggccg tggcgtggc cgaggcgga gagtgggagg 300
 tgtgcgcctg ctgcgggctc agggaggagt gcacgccggc atacgcggcc ggcgtgcgcg 360
 cgcggtacgg ccggcgctgg ctgtgcgggc tctgcggc 398

<210> 18400
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-C4

 <400> 18400

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 ggcgctcgcg ctgggaggcg tgtcgtggac tgcgcgggc gggagcgccg gcgccgggcc 120
 cgggcccgtc acgcagccgg ccatggtgtg cgccctcaac gccgtgaccg acgccgcggt 180
 ccgcgccttc gcggagcagc gcggctcggc gaccatgaag acgagcgtgg acgcgctctc 240
 ggactcgctg ttccgctcggg ag 262

<210> 18401
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-B10

 <400> 18401

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tgcgtacccg gcagcctcct ggcgggcgaca gcagcatttt gctgggctag cgtgcatatg 120
 aatcttgctg ccctatgccg ccgccgcaca ggtgggttggg ccgtcagtgt gtgggtcttgt 180
 tttcgtggtc aggccatgtg tcccatctcc ggtccttcag atgatctggt tcgcatctgt 240
 cttgtgtatg gttttgatat gtgttggttg tgacatgccc catggaacaa ccctatcgct 300
 atgctgtttt gttgtgtaca atggatgacg tgtgctgccg ttttgttgtg tgtacaatgg 360
 atatgtctgg ttgttgaata agaagaaatt ggtatatggt accaatagtc cg 412

<210> 18402
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-B12

<400> 18402

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 aggcggagggc acggcacgag gcaacggcgc cgacgcgaac gtgccggaga acgacgtgaa 180
 gaggatgcgc gtgcagtcac cgtagtaggt cttctactac cgtgcactcc accccacccc 240
 cgtaaacctt actactagta gtaagtacta cgaagaaccg gtgccccatc tagcggcgcc 300
 cgatttttgt gcgttacgtt ctgcctaaaa gtgctttccg tcgacggacg gacctcctgg 360
 tgttgagatg gtagcggtag cactgcctcg cggcgatggt gtgtgtgtgt tgtgacgtga 420
 ttcacctctt agagtagaaa ggtggctagc ccaatcgacc tgtgtgtgtt g 471

<210> 18403
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-B3

<400> 18403

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 gtgtctgcag gcgcagctca agagcactcg tcaggctact ggaggagaat gatgaggaga 180

tcttcaacat gctacaacta gaaccgggga aggcaccgtg ccaaggccta tagagacgag 240
gttgggcttc tgaaaagttc cgattgaaac aagtgcaaaa acttaagaaa tgggccggtt 300
ccgaaaaagg ttaaaagcca attggttgct ttccagacaa agggcttggt gttccaaaga 360
cggttgggggt catgcttcaa ttattatgct ggaaccttcc aataaggc 408

<210> 18404
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-B4

<400> 18404

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tgagcagcag acagcagcag ctgctgccat ggaggcgtgg agatctctcc tcgagagctt 120
cgtgctcgcc gtgctggccg cgcaggcctt ggtggctgtg gtcgagtcca ggaccggccc 180
cgtggagcag gcgagccaag caggtgacga cgtgaagaag ccggactgcy tgccggtgat 240
agacccgcgc tcgggtcccg g 261

<210> 18405
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-B6

<400> 18405

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ggcgatgtac ggcggcggca tggagttcga ccactcgtat tgctacgacg acgggatggt 120
gagcgggagc agcgactgct ggcagagcgg cggcggtatg catagcagcg tggatggcga 180
cgacgacggc gccggcgaca tgacgtctg gagctactga gctgtagagt ctgtcttcag 240
cgcaggaggt tgggagagga gaccacgctc tggagctact actggacagg gaagaaagtg 300
ggggagccgg gagcgagttc gaatttgaat tcagaaactc tgtactggca ctggcacacg 360
cggggaacgc gccacgcaag agcgagcgt 390

<210> 18406

<211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-B7

 <400> 18406

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 gtagacagca cagtcgttat ctgtgtgagg ggatcgttgt gattcaaaaa cgtgcgaaga 120
 tactaccatt actcgtactt ggactaccgt tctgtgcata gtctgaaggc tgctatcaat 180
 agaggactac tttagctaata gggatgcaga ctgactatga gactgatagc tgacaatgaa 240
 acttccttgc tcgaaaatgg atggcattcc cattcgggtat ttgggaaaga att 293

<210> 18407
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-B8

 <400> 18407

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 ggccggtacg agcgcgcgta ctccgcccgc cccgtctgca agtggctcac cccaacgag 120
 gacggcgtgt ccatggccgc cctcgcgctc atgaaccagg acaaggtcct catggagagc 180
 tgggtactacc tcaaggacgc ggtgctggac ggcggcatcc cgttcaacaa ggcgtacggg 240
 atgacggcgt tcgagtacca cggcacggac gcgcgcttca accgcgtgtt caacgagggc 300
 atgaagaacc actcgggtgat catcaccaag aagctgctgg acttctacac gggc 354

<210> 18408
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-B9

 <400> 18408

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 aaatctagga gcaaagggtcc ggaaccttct agccgcacct agggtttga ttggcgccga 120

gcacggcgta cgctgaccac gcctttctcca tctccgacga ggacgacctc gtcggcgggcg 180
ccatggggggg cccgcgcggg ggcggcggtga aggagatcgc cttcgccgcc gcgctgctcg 240
ccttcggggg gctcggtacc atcgggtggc tgctaattggc cgtcaaccgc gtcggaaggg 300
accgcgcgca cggaattttc ttcgatgatgt tgggcattgt aatgttcac cctgggttct 360
actacacaag gatcgccctac tatgcttaca aagggttaca gggcttctct ttttcgaaca 420
ttccaccgat ctgaaagagt gtgc 444

<210> 18409

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C1

<400> 18409

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cggcaacgaa actgaggcaa agatctttgc caaagtcaga ggatgggaga ctgagaatat 120
tgaggagatt gctttgaaga tctctcaact tcctttggct tcaggcaagc aaaagaaggt 180
tgctgggaat acctaagggtg cttattcaat ggggtgggtg taagattgga aaggggaaac 240
cttccttggg aacctaattgg ccaaggggaa acttggtgac accaacgggg caagtgaagc 300
tttcggtgga aggtttcttt tacaagtggg tctaagccag ggccttgaaa aatgccttaa 360
ggccaggtgg tattccggaa acgttatcat tcaacggccg ggctggac 408

<210> 18410

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C10

<400> 18410

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cacctgtggc cgtggacgaa gtcccaggag gctggcttcg cgactgcgc tctgagggcc 120
cgggagagct gcgagtgggt ggggttcacg gacgtcgacg agttcctcca cttccccggc 180
aaccagacga ccctgccaga catcctgcgg agctactcga acaggccgcg ggtgggag 240

ctgaggacag catgccacag ctteggggccc tcggggcgga ccagaatccc caagcaaggc 300
 gtgacgacgg gctacacctg ceggctcgcg gcgccggagc gccacaagtc gatcgtgagg 360
 cccgacgcgc tgaacccgtc gctcgtcaac gtggtgcacc acttccacct gagggga 416

<210> 18411
 <211> 395
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-023-Q1-K1-C11

<400> 18411

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 agcccgtccg cgcctcctcc tccccaccgc gcattcgctt cctccggtg cctcgctacc 120
 aaggctcgaga tcgtcgagat cgacctcacc gaggaagacg ctggctcctc ggcccacggc 180
 tcttccccct cgccccatc gatcgagggtg gttggggtcc ggcgcctgga ggaggccatc 240
 cacggcgctca tgggtgcgcgc cgcgcgtccc gattgggtgc ccttcgtgcc tggaggggtcc 300
 tactgggtgc ccccgctgcg cctnccgcac gaggtcaccg cgtttgtcgg ccggatcgcg 360
 gcctcaggag gcgcctnccg ggtcgccaag ttcat 395

<210> 18412
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C12

<400> 18412

gggaggtggt gaagaagcag gcacaagtga tgctgctatg aactcgtgc cagaacctgt 60
 ggcacctgag acggtggggt cgacggcggt cgttgctgtc atctgctcct cacatatcat 120
 tgtctccaac tgtggagatt cacgggcagt gctctgccga ggcaagcagc ctgtgcctct 180
 gtcggtggat cataaaccta acagggagga tgagtatgca aggattgagg cagaggggtg 240
 caaggtcata caatggaacg gttatcgagt ttccggtgtt cttgcaatgt cgcgatcaat 300
 tggtgacaga tatctgaagc catggataat tccagtccca gaggtaacaa tagttccgcg 360
 ggctaaagat gacgagtgcc ttattcttgc cagcgacggc ctctgggatg taatgtcaaa 420

tgaagaggta tgtgaaatcg ctgcg

445

<210> 18413
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C2

<400> 18413

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tggagggccg ggactgccgg tacgagcgcc gctactccgc cgcgcccgtc tgcaagtggc 120
tcacccccaa cgaggacggc gtgtccatgg ccgacctcgc gtcctgaac caggacaagg 180
tcctcatgga gagctggtag tacctcaagg acgcgggtgct ggacggcggc atcccggtca 240
acaaggcgta cggtagacg gcgttcgaat accacggcac ggacgcccc ctttaccggt 300
tgtttcaaca aggcctgaaa aacccctccg tgatccttac caaaaaactg ctggactttt 360
acacgggctt taaggcctt 379

<210> 18414
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C3

<400> 18414

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aggatcgctg ttgcagcggt ttgccgatgg tgatgatgat tttagaaaca gcagactgaa 120
gcttatccca tctgttccaa aggggtcttg gatagtgcgg caaagtgttg gaagcacacc 180
ttgcttgctg gggaaagccg tggactgcaa ctatttgcgt ggtcctgact acttaaaagt 240
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tgttacaact ttggtagtca ccttggcggt cttattccag ccaaccactt ccaacaggtt 360
ccaaaagcag ttcttaggcc ctgcccggtt gtaaaacatg gaactttttg cggcc 415

<210> 18415
<211> 396

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-B1

 <400> 18415

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 gaactaaagc tgaccttcca caaaaatcta gcaaagccga tcttgagag cgtagtagc 180
 atcgcttcct caagtacaac cagccgcaca aatattgacg agaaccttcc ttgtgagaaa 240
 ccttctaagc acccttgcaa aactacaaag gtacttccaa tttctcaagg gaaaggaatt 300
 ggccatcttg aaaaacatcc agatgacgaa atccttgact gtctacttgc caaaaactct 360
 gattaaccca ttgatgtag caaggcaa at accatg 396

<210> 18416
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-H12

 <400> 18416

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 gctctgatgc tgtccaggat gcttgaactt atgatatcga agatgcttag aactctactg 120
 gtgtacagac ctcatctgct tgtgaagcta gtctcgatga aatgcacaat gcttgtgcga 180
 aattctcata caatcacaga tgattgctga atgcattcat ccgtaaaaac cctggattgc 240
 tgctgaagtc attctcgctg atgttgaaaa ttctcgcct gattgatttt gacaatcaac 300
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 gaatctctgt gcatcgcca tatattcttg aggactccta caatcagctt 410

<210> 18417
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-H2

 <400> 18417

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aagttactgg ccattcctcg agtgaacatgg atttaccaca cgatggcctt cagtcgccgg 120
agtacattct caccggtgac aggccaagat tcggaggaag ggcctctatc agcagaggga 180
agagccttct gcctctgttc gatgcagtcg gcgacgaggc ctgtgaccga atgccgtcat 240
ctgctggagc aggagaggca gaccaggccg acgatgcagc aacgaagccg gtttccgtgc 300
ttgtcaaaga gcacgagagg ctggcgatca tagaggaggt cgaccatgtc tacgaaag 358

<210> 18418

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-H3

<400> 18418

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aatgggcatg gggatgggaa tgaatcaaca acagatgagg atggggatga accaacaacc 120
gatgggaatg gggatgggga tgaaccaaca accgatggga ggaatgaaca tggggatggg 180
gatgaaccat gggatgccga tgcgtccttc aatggggatg ggtcctggtg gaatgcccgg 240
tgctggctac aat 253

<210> 18419

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-H4

<400> 18419

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caacagacta caatggccat gaaccatcat cctatgggac atggcatgat tgatgaacca 120
acaaccgatg tcaaataatg aac 143

<210> 18420

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-H5

<400> 18420

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tatgtctgac aagggctata gctcagttcg gtagagcaac tcgtttacac gtgcgccaat 120
gcttttcaag ggaacttttt atgcaatgaa cataattgac cttgttgcaa aatcaatgtc 180
ttacttcatg gattcgaaag aatagaagaa cagtagcctg acaatgacaa acagctgggt 240
cagtccgatt caggtgccaa ttaaggtgct tactcaaata gaactcctat tgatttgcta 300
gttgataagg taaatatcca gccactcaa tgctaggcgt aatgaggata agggcctcca 360
aaaaacttct tttcgttcta tgaacttta ggtgtatgaa gtctcatagt aaactcttgc 420
agcggaacga tagagactcc atttactta ggttgattta attt 464

<210> 18421

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-H6

<400> 18421

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aatgctttac aagggaaactt tttatgcaat gaacatagtt gaccttggtg cataatcaat 180
gtctaacttc atggattcga aagaatagaa caacagtagc ctgacaatga cacacagctg 240
gttcaactcg attcaggtgc caattacggg gcttactcaa atcgaactcc tattgatttg 300
ctagttgata aggtaaatat ccagcccact caatgctagg cgtaatgagg ataaagacct 360
acaaaaaact tctgttcgtt ctatgaactg taaggtgtat gaagtctcat agtaaactct 420
tgcagcggaa cgatatagac tccatttcac ttaggccgat tt 462

<210> 18422

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-H7

<400> 18422

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ggcgcgctc ggccgaggag cgccggccgg cggcgctcaa gatggttgcc atctacgcgg 180

gcatcggggt catgatcggc ttcgacaacc tcatgtactc gtacgcgctg cagtacctgc 240

cgggtgtccac cttctcgcctc gtggccgcga cgcagctggg cttcaacgcc atcacctcgc 300

gcctcatcaa cgcgcagcgg ttcacggcgc tgatcgccaa ctccgtggtc gtgctcacct 360

tctccgtcgc gatcctcggc gtcagatcct cctgcgacga gacctacagc aacgtgccgc 420

gcggcaagta cccactgggg ttcgtactcg tgctggccga ctcgacgggtg ttcgc 475

<210> 18423

<211> 483

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-022-Q1-K1-H8

<400> 18423

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ccatgctgtt gaaaaggggc aattaaccat tcttccggag agatttgaga agatttataa 120

tcattggcta acgaacataa aggattgggt tataagtaga caattgtggt ggggtcatcg 180

tataccagtt tggatatatt ttggaaagaa atgtgaagaa gactatattg ttgctagaac 240

cgaagaggag gcacttgcag aagctcatga aaaatatgga aaatcagttg aaatatatca 300

agaccctgat gttcttgata cttggttctc aagtgtctg tggcctttca gcacgcttgg 360

ttggcctgat ctttccaagg aggattataa gcatttttat cttcaactg ttctggagac 420

aggccacgat attttgttct tctgggttgc acgaatggtc atgatgggaa tngagttcac 480

agg 483

<210> 18424

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A11

<400> 18424

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gctctgttga ggtcagccat ggcgagggtg gagcagcaac aggacacgcc gaagctcttc 120
aaccgctgga ccttcgatga tgtccaggtg aacgacatct cgctgaacga ctacctcgct 180
gtgaacgcga cgaagcacgc gatgtacctg ccgcacaccg tggggcgcta ctccaagaag 240
cggttccgca aggcgagtg ccgatcggt gagcgcctta caaactccct catgatgcac 300
gggcgcaaca acggcaagaa ggcatggct gtccgcatca tcaagcatac cctggagatc 360
attcacctgc tcaccgatgc caacccatt caggtcgtcg tcgacgcgat caataacagt 420
ggaccccgctg aggatgccac ccgt 444

<210> 18425

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A12

<400> 18425

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aggtccgatc cttcccgttc ggcgggcgcg gccggccgtt ggcgggcgcg gcgtctgcga 120
gggggggtgac gacggtcaca ctccccgacc tctcctacga cttcggcgcg ctggaaccgg 180
ccatctcggg ggagatcatg cgcttgacc accaaaagca ccacgccacc tacgtcgcca 240
actacaacaa ggcgctggag cagcttgaca ctgccgtctc caagggcgac gcctccgctg 300
tcgtccagct gcagggcgcc atcaagttca acggcgcgcg tcagtgaac cattcaatct 360
tctggaagaa cctcaagccc attagcgaag gtggcgggga gccgcctcat gggaaacttg 420
gctgggccat cgatgaggat tttggttcgt ttg 453

<210> 18426

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A2

<210> 18429
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A6

<400> 18429

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acggtcgaat agtgtctgca aggttgctcc aatacctgga gagacaaaag tgtggcagta 180
catcactctc actaaaaaga tatttttagat tgattgtccc ggtgttgtat atgaaaacaa 240
tgattcagaa actgatataa ttcttaaagg tgtggttcgg gtgacaaatt tggcggatgc 300
tgcttaacac attggtgaag ttcttaagcg tgtaaaaag gagcatcttc aaagagcgta 360
ccaaattcaa gattggtctt atgataacca ttttc 395

<210> 18430
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A8

<400> 18430

cttgaggaga ctgtcgggtc atgtactaga agaatggtcc tctatcaaga atatgtgaag 60
ggcatatcgt caacagggat gcaatccaat tgtggttttg aagggaagt taatgcatgc 120
tggaactcaca aaatgactac taaggaacta gatacaatac ggtttgccgg ttttctagtt 180
tcagttattc atggaaagta cgatatcatt gcacaattgt gccatgcaaa acg 233

<210> 18431
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A9

<400> 18431

cggacgcgtg ggctgtactt cctcagcctc atcctatcca agaacgcaga accgagaccc 60
 aggaactcgc agcaggccag cagccatggc cgccccgcga acgagctccc ttctgagcac 120
 gctgctgcag ctaccactcg ctccgttctc ggggaagagc tcgccgccgt cctggttgca 180
 cgtggcgcgc cgggcgccga cggcgggtgtt ggcggccaag ggatacaatg tgcagatcct 240
 ggtggacgag aacgagggggg aggagtccat cttccgcagg ttccggcggg aggtgatgcg 300
 cgccggcgtg ctgcaagaga tcaagcgccg ccggaggtac cagagcaaga cggacgataa 360
 gaagcgcaag gcgcgcgagg gcggacg 387

<210> 18432
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-H11

<400> 18432

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 ggatgttaca agccgtgaat tggcaccagc aattactttg ttacagttag acttgagttc 180
 atccaagcct gtgcttcgat ttgctgctgt ccggactctc aataagggtg ctaggacacg 240
 acctctggcg gtgacaaact gcaatgtgga cttggagagt ttgttgtcag accagaacag 300
 gagtatagcg accctggcaa ttactactct tcttaaaact ggcaatgaat caagtgtgga 360
 tcgtctcatt aaacaaatta cccttttcat gtctgacata gcagatgaat tcaagatagt 420
 tgttgttgaa gctatacggg ctttg 445

<210> 18433
 <211> 476
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F5

<400> 18433

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 atcgaagaga gagggattgc ttgaaaacta ttctgcacag ggtatatggg aagttcatgg 120

tacaccgtcc tttcatccgc aaagcagtga gcaacatatt ctaccagttt gtctttgaga 180
 ctgatcggca caatgggata gcgagctgc tggaggtctt tggcagtgtc attagtgggt 240
 ttgcattgcc tctgaaagaa gaacacaaga tctttctttg gagagtctg attccgttac 300
 acaaacaaa atctgttggg gtgtatcttc agcagttgac ctactgtgta acacagtttc 360
 tggaaaagga cccaaagctt gcaagctcag tgataattgg tttgttaaga tattggccga 420
 taacaaactg tcagaaggaa gtgatgtttc tcagtgaatg tgaagagatc ttggag 476

<210> 18434
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F8

<400> 18434

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 agggcgtgtg aggcataaaa ttatacttgt atgttttttt catttgtttt ttcttttgct 180
 tcgctatctt tactttttac cagtatattg ccgtgagttg acagtgctag cttttggaat 240
 tcacacatat atttggcgta aaatgaattc caagagctat cagcgccatt ctttatcttg 300
 tcagcctacc ctattt 316

<210> 18435
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F9

<400> 18435

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 tgccgatcga tcaattgggt ctcttcaagg cccaatcgga ggcggtagcc tcgatcaccg 120
 cggcggcgat aacctctctg ctgcaagcac tgaccagct cgttcctcaa ctactctaca 180
 tccactcatg accgctgctc cagatacagc acccgagca ctaaactt ggcctcacac 240
 tactactcca caccctc 257

<210> 18436
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G1

<400> 18436

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ctgggaccag gcggtcctga atctgaccgt gaatgtcaag aaaatgttat ctgagatgga 120
cgacgatctc ttctcgatcat gcctggccaa gtacaaggac gaagaagaaa aacgcgcgtc 180
gctagaagcg aagcgtagac ttacgtggga gaagctcgag tcagctgcag ctttccagcc 240
agtgactggc catacagccg tcttagtagg ccaccggccg tcagcaaata tgatcgccac 300
catgatctag ctcatgcatg tatgccgaac aagcgaaagt ggtgctcttc cccctttttg 360

<210> 18437
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G10

<400> 18437

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gtcacgaagc tcatactagg gaagcataat cttttggcac caattacatc ttatgcccgc 120
cctgaggtgg cagtaaaatc ccagtcatac tttttcaccc attcagtaaa agcaatggca 180
gttacacaaa cggctaaggg gatcacttcc aagcagcttc tggtgggtac tattggtgac 240
caggtttttg cacttgataa gcgctatctt gatccacgcc gttcagtga cccgacacag 300
caagaaaaag aagagggcat tataccatta acagattctt tgcctataat accccagtcc 360
tttgtgacgc actctcatca agtggaggcc ctgc 394

<210> 18438
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G11

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220

<210> 18441

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G4

<400> 18441

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ccgagctctg atccgtcaag gaccacttgg tcaccactga ttacatgacc tacatgttca 120

agtacatctc cgtgcacgga caatggtagc acagcgacat atccctaacg gtctccaata 180

ctcttctatt ctgcgagatg ccagtcaact actttaggat caggaactcc gaagagatcc 240

cgtggcgtga ggctgggtgct gag 263

<210> 18442

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G5

<400> 18442

catcatccct ctcttgttt tatcgcttta tcacatcatt cacaatcact agaaccaggg 60

ggtcctttat ctgaccttca atgtcaacaa aatgttatct gatatgcact accatctctt 120

ctctcatgc ctctccaatt acaacgacta ataataaaaa ctctcatctc tagaaacgaa 180

tcatacactt acttactaga atctctagtc atcttcatct ttccagccat ttactagcca 240

tacatctctt ctaatatgcc acccttcttc aacaaatctg atcgccaaca ttatcctact 300

cattcattta 310

<210> 18443

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G6

<400> 18443

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 tcttcgctcc ggccggccggg ctgcgaaacc ctacgcaggg gagcgagaga gaaactagcg 120
 gccatgttca gctacaggaa ggctggcccc gacctcgagg ccggcgggtc ctcgctgctg 180
 taccgggga tgacggagag ccccgagctg cgggtggcgt tcgtccgcaa gatctacgtc 240
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 gccgtctcca atttcttcgt ctctccaac gccggggtcg cactctacat ctctctcatc 360
 atcctgcctt tctcgtgct gtgccctctg cgctactacc accagaagca tccggtcaat 420
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 t 481

<210> 18444

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G7

<400> 18444

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 gggctcttcac gccggtcaac ccagtgggcg gcgccacca cggcgtggag ctcgacgagg 120
 ccgacgtcat ctggggcggc ggccggcgcg gcgggtaccc ggcgctcgcc tcaccgtcgt 180
 cgtcgcggtt cctgtctctc gcggtcgacc cgtacgcgcg gtcgccgccg gtggccgcgc 240
 cgtccaagca gaagccgcgt ggggtggtgg ccggcgctcc ggggccggcg tcggtgcccc 300
 tcaacatccc ggactggtcc aagatcctgg gcgccagta cgccgggagc ggttgggcgg 360
 cgcacgacga ccgcgctgac gacgacgcgg gggccttctg tggcgccggg ggccggcgct 420
 gggtgccgtc ccacgaggtg ctgc 444

<210> 18445

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G8

<400> 18445

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gcgctcaagg acagcgcggc catgggggtac ctggctcccg agtacgcgac gacggggcgg 120
tccacggaca agcagggcga cgtgtacgcg ttcggcgtgg tgggtgctgca ggtgctggcg 180
gggcggcgcg ccgtgtcgcc gccccacctc cagcagggcg gcggcggctg cgggcggctg 240
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gccggcgctc cgtgtctctg caccgacgag gcgcccgcgc agcggcccgc catggccgcc 360
gtgctgcagc agctcggcac cagcagccag tgatcgtcgt ggtcggccgg tacggtgggtg 420
ggccggagtc ggagctc 437

<210> 18446
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-022-Q1-K1-G9
<400> 18446

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gcatccgatc gcaaggaaga agagggagat gagctactac gggcagcagc cccccgtcgg 120
cgtcccgcgc cagcaaggct acccgggcaa ggacggctac ccgccagcgg ggtacccgcc 180
ggccggcgcg gggctaccct ccgcagggct acccgccgca gtacgcgcag ccgccgcctc 240
cacagcagca gcagagcagc gggccttcct tcatggaggg atgcttggct gccctctgct 300
gctgctgcct cctggacgcc tgcttctgag agtgagaggg gccgaccgac ggattcgaca 360
cggcgacaag tgaaactact agctttctat gcgagggaga gagagagaga gctggaactg 420
gattgagcct 430

<210> 18447
<211> 360
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-022-Q1-K1-H1
<400> 18447

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ttaggagctc tgggctctag ctagccgcgc cactccttcg tgtagccatc agccttctca 120
 tcgccaccaa tggccactgc cgagggtccag accccgaccg tcgtggcggc cgaggaagcg 180
 cccgtggtgg agaccccgtc gccggccgtc gtgcccagagg agtctgcccc cgccgaggcc 240
 gaggccgatg ccgacgctgc tgctcctgct gatcccagagg agcttcccgc ggccgatcag 300
 catgcagccg ccgaagcgga tgccccggct cctgctggtg ccgatgagcc cgtcgcgggc 360

<210> 18448
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F4

<400> 18448

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 atagcaattg tatgatctga tacgagttcc gtcacgacga aggaagaagg gcgtgtgagg 120
 cagaaaatta tacttgtatg tttttttcat ttgttttttc ttttgcttcg ttttcttttc 180
 tttttcccag tagattgccg tgagtagaca gtgctggctt ttggaattca gacgtgtatg 240
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 tttgttgtct agtccctttt gcctctcttt ggcgttctag acaccggga agtgtaatgg 360
 acagacgaac accaccagtg tgcaattcac atgactagag agaactt 407

<210> 18449
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-E11

<400> 18449

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 cgctcggagt cgggtgtcctt ggtcgccgca tcaacgatgg tctcctcgct acaagcgtg 120
 gccacgctcg taccgggcct gtctacatt cacgcaggac cggtgctccg actacagtcc 180
 ccggccgctg aggctcttgg cccacgcac cttcttcaca ccc 223

<210> 18450

<211> 412
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-022-Q1-K1-E12

 <400> 18450

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 cgcgggcggc tcggcggtcg caccggcgcc cgcgcgcgcg gcaggcgctc gcggcgctcct 180
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 gacgcgaaca ggatgagccg agcttcgagg cagaggagga cggggtgtgg aggaaggaga 300
 taatgatggg ggagcgctgc cagccgctgg aattctccgg ggccatctac tacgacgccg 360
 agggccgctg tctcgagcag ccgncgaccc cgcgctcgcc gcttcgcagc cc 412

<210> 18451
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-E2

 <400> 18451

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 acgtactttc gcgccacggc ctccggcgcc gagccggaca ctatccgtgc gcatgaacgg 180
 gctgcacatg ccctaccgtg tcgtgatcag gtcacgcagc acgggcacca cctacaccgt 240
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 tgctga 306

<210> 18452
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-022-Q1-K1-E3

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cacatcaagc tcgtggtcgc actgcccgcac gacgactgcc agtacgccgt cttcgacttc 360
gacttagtga ctgttaacta ctgtcagaat agcatgatct 400

<210> 18459
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F1

<400> 18459

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caccctactt aatccaac 78

<210> 18460
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F10

<400> 18460

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gcgacgactg atggatccgc atccatccgg tgggctcgtt cttcctcttc ctgccttggt 180
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acgatgataa tgtttaggat gtttggacga atggatatctg tcgtaattga tgtcttcac 360
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gttt 424

<210> 18461
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F11

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 ctgccaatca ggtggtggtg aaaaacgcgg aggcatacac ctacgacgac gaggtgatca 180
 agcacgccga ggccatcggg aagccaggct tgggtggagat caccgccaag gaggacagct 240
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 tcacggtcct gaggcagaag ctggatgccg tccgccttca tgacgacgac ggcgaccttg 360
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 tggcc 425

<210> 18462
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F2

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 tccactgtta agtgtgagcc tggatatggc tttgtgctgc acctttccca ggctgctctt 180
 ggggaatcga agaagagtga taatgccttg atgtatgtca aaattgatga tcagaaactt 240
 gccattggaa ccctctctgt tgacaagaac ccacacatac aatttgatct gattttcgat 300
 aaagagtttg agctgtcgca cacatcaaaa actaccagcg gtttctttac tggc 354

<210> 18463
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F3

<400> 18463
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atgtctatcc taaattcatt gttcacgctc ctcttatact ctacattaca actaccatth 180
tctaactctt ctttttttaa actgatcaac actaattaat ccttaattcta tctaaaaact 240
tacgatcata cactaatcat tttaactttc ttttctaaca agaacacact ctctctcttt 300
gaacagatct tataccatga cataaaccat tctctcatca taaacactat catcatttta 360
tctactgtct aacacat 377

<210> 18464
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-E10

<400> 18464

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tctgcctcct gaggtgctga acgacagctc tgctacttct gatctgcatg atggccggga 180
aagcagcatg ccggagtcac ggagccagct gcttcttggg ggattagtcg gagaccacga 240
gagatacaac gctgccacag ctttactgtc aaaaggatta gaggagcgac ctgcagctta 300
caattgctac gaccctggac atggtggtgg tgaggagatc cagacaccgg ggaccaacat 360
taggtctcat caggtgagcc agacgctctt agcgtcgtcc tctcctaggt cctgcatcac 420
cacaagcctc ggcagcaaca tgctgg 446

<210> 18465
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C6

<400> 18465

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ttgagtaccg gtgcttcggg ggcggcctcg cctgggccac ggacgaccac tccctccaca 120
acgccttcag cacctacggc gaggtcctcg agtccaagat catcctcgat cgggagacgc 180
agagggtccc cggcttcggc ttcgtcacct tctccacgga agaggcgatg cggaacgcca 240

tcgagggcat gaacggcaag gagctggacg gccgcaacat caccgtcaac gaggcccagt 300
 cccgcggcgg ccgtggaggc ggcggcggcg gcgggtacgg tggtagccgt ggaggcggcg 360
 gctacggcgg tggctggcgc cgtgatggcg gcggcggcta cggcgggtggc ggcggctacg 420
 gtggtagcgg ctgcggctac ggtggtagtg gcggcagcta cggcgggtggc aaccgtggcg 480
 gcg 483

<210> 18466
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C7

<400> 18466

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 tggggcgacg ggcggggcaa ggtccttgac aacgggcggc tgctgacgct gtcgctggac 180
 cgcacgtccg gctccgggtt ccagtcccgg cacgagtacc tggtcggcaa gatcgacatg 240
 cagctgcggc tggtagccgg caactccgcc ggcaccgtca ccgcctacta cctgtcgtcg 300
 cagggcggcg cgcacgacga gatcgacttc gagttcctgg gcaacgtgtc cggcgagccc 360
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 ctctggttcg accccaccgt cgacttccac acctac 456

<210> 18467
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C8

<400> 18467

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 ctaatccaat caatcttagc cactgtgcat accttactca tatcgatagt ccagctcgct 180
 tcccgttaa agatcaatgg aaaacaatag cctcaacaga tctgc 225

<210> 18468
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-D10

<400> 18468

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ggttttcttc cctcggatgg cgagacaaga acaagggcaa gcagaacggc tctgatgagt 120
caacaaacgg taagctcaat aatagcaccg atcaaggggt tgaaacaccc aaaaaggacg 180
actcgccaaa agagggtgaa cagattgtcc gaacaccgga aagagacaat gaactgagac 240
tagggacacc caagatggat agtgaggtag caagtgtgga aatggcggca aacagtacga 300
atgggctgga ggaccagttg gaggagataa aattggattg atatcctttg gctgggtctct 360
aagtcgcaac ataaggtgcc attaaattat gtattggtgt atccattttc cacctctatt 420
ctttt 425

<210> 18469
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-D11

<400> 18469

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cgagaatcat cgatgatttt accgcttacg cagacgtgtg cttccggagc ttctgcgaca 120
gggtgaagca ctggatcacg gcgaacgagc ccaacatcga gcccatcggc ggctacgacc 180
aacgctacct accgccgctc cgatgctgct acccgtttgg actgggcgctc acctgcaccc 240
acggcaactt cagcagcgat ccgtacgccg tcgtccacca cctactgctc gcgcagtcgt 300
cggctgtgtt cctctacaga cgcaagtacc agggcgagca aggaggacgg attggactga 360
cgttgctggc ctggtggtat gagccagcga cgcagaaacc cgacgatgta gaagcag 417

<210> 18470
<211> 427
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-022-Q1-K1-D12

<400> 18470

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agtctggtgc ctcaatgagg tgccctgggt gccagggctc aggcataaaa gtcactattc 120

gtcagctggg cccttccatg atacagcaga tgcagcagcc ttgcaatgag tgcaagggga 180

ctggagagag catcaatgag aaggaccgct gcccaggggtg caaggggtgag aaggtcattc 240

aagagaagaa gggtcttgaa gttcatgttg agaaggggat gcaacacaac cagaagatca 300

ccttccctgg tgaagctgat gaagcgctg atactgtcac tggagacatt gtattcgtcc 360

tgcagcagaa ggatcactcc aaattcanag gaaagggatga agatctcttc tatgagcaca 420

ccttgtc 427

<210> 18471

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-D2

<400> 18471

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acaggccaca agaggaacac tgcgaaatgc atgccccttg ggaagaaacc aaaaaatctc 120

agccatggtg gcaagtagct gatgtcgatg gtttggttc ccttgtcgct gaaagagcaa 180

tggaaaacat tgtcaacaat gatctgcaa gaccactca gacagtcggt gttcatggac 240

ctcaagtga gggccctgaa aacaaggatg attatgggat gtctgttggt tctggggggc 300

aagagccaga tctgtacat gacactatgg agtgcagcta cagtgtt 347

<210> 18472

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-D3

<400> 18472

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cgaggctcgc ggagctcatc ccgaccacgc cggcgcgccg cggcggcgcg gcgtggcccc 120
ccggcaagtg caagcggcgg aaggcgaacg acttcgaggc cgcgttcctg gagttcgacg 180
aggactccga ggaggaggag gaggacgacg aggggggtggt ggagagcaag cccgccttcg 240
tcgtcgtcgc ctgctccgcg gcgacgcagc ccagggcgcg ccatgagcag cggagccggc 300
gccgggcgcc cgaccagcat cagtacatgg gcgtccggcg ccgtccgtgg ggcaagtggg 360
ccgccgagat ccgcgacccc gtcaagggcg ttcgcgtctg gctcagcacc tttcccttcg 420
gcgatgccgt cgcgcgcgc c tacgaccacg 450

<210> 18473
<211> 473
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-022-Q1-K1-D4
<400> 18473

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atgtatggta caaggggtgg actaacagaa caagaactaa taaaacaaga agcagaatac 120
atttaccgtt accgttaciaa tgggtggtggg gcaactcaag tttggctaag ttctggaaga 180
tttgttgtaa tagatctttc agcggggcct tgtacatatg ggaaaataga aactgaagaa 240
ggcagtgtca gctataggtc aatgccacgg ctgtcacaaa taatcttccc aagaggactt 300
gctgccccaa gtgctagttc aacgcaagat attttcattg ggcagctcgg aggtgcaatt 360
gcaactacca ttgagcatgt gatagctcct gatataagat ttgaaactgt tgacatggca 420
gtgaggttgc ttgtacctat tatngtgcta cagaaccaca ataggtacaa cat 473

<210> 18474
<211> 477
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-022-Q1-K1-D5
<400> 18474

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gaagccggac tatgcctgtg gccagccggt gcctgtcagc ccaaccgctg tcccagaccc 120
gagcgggctt gactcgacga cgcttgctgt ggcaacatgg caggtcgtgt gcaacattac 180
cacgacaaag ggggccaaagc ccaagtgttg tgtgaccttc tcggcgactc acaacgactc 240
agtgatcccc tgcagcacct gcgcttggtg gtgccctgca aacaggcgag ggccaacgtg 300
cagcaccacc gcacaatcca tgctgtgcc accggaggcg ctgcttgctg cattcgacaa 360
ccggtcacag aaggcggttg cgtgggctga gctgaagcat tacaatgtgc cccggccgat 420
gccttgcggt gacttctgtg gcgtgagcat caattggcat gtctcaacgg actacaa 477

<210> 18475
<211> 226
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-022-Q1-K1-D6
<400> 18475

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aggcggtact atccgacaca catgcccata cattaataaa ccaacagata tgatccatgg 120
ctgcaagtat ctcatgtcga cgattagtct tacattatcg ctgaaaaagc actggataac 180
attgacaaca atgatctgcc aaaaccact catacagtac acgttc 226

<210> 18476
<211> 475
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-022-Q1-K1-D7
<400> 18476

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ttggtaaata ttgctgcaat taaggctgcc atggatggcg caaatctgt cacaatgaat 120
gatcttgagt atgcaaagga ccgaatcatg atgggtagtg agcgaaagtc ggcagttatc 180
tctgatgaat gcaggaagct gacagcatac catgagggtg ggcagtcctt tgttgccatc 240
cacacagaag gagctcacc tgtccacaag gctaccatcg taccagggg ggtggcccta 300

ggaatggtgg cccaactccc tgacaaagac cagactagtg tgtcaaggaa acagatgcta 360
 gcgaaactgg atgtctgcat gggaggccgc gtggcagaag agcttatatt tggggatact 420
 gaggtgacct ncggtgcgtc gtcagacttc cagcatgcaa ctgcaatggc aagag 475

<210> 18477
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-D8

<400> 18477

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 gcattccttg accattaatt ctctcctggg catatcagtg gtgtttatatt caatgcacca 180
 gttcttctct gcgcttgcaa aagtcaaaga tgacaaacca gctgactcaa tagagttgga 240
 agatacacia aatgaccgcc catctgaatc ttcttttgta aatatgactg ctggtgccgc 300
 tgatgatgca agccatcgga ttggaactga tgagaggcag ccgctattgc ctatatgaac 360
 ttgtttgttg aggtaggaca gaagagaggg gatagaagaa gaggctcctt gttgccgtgt 420
 gagcagcaga tttgatgtag cattgatagg cgaataaaca 460

<210> 18478
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-D9

<400> 18478

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 tcatgatgct gcagaataga tatgggcgtc aaagattata tactaggatt gctttgggga 120
 aggctaaaag aatggatggt gtatggggag agactgctgg tgttgaaggt caattgttgc 180
 tgttggtccc tctccttttc ctctgcagg gattcgaggg ttatgttggg tttttacttc 240
 tgcgcacagc tcatactggc gttgtccctg agtggcaggt tgtggtatgc gggatcctgc 300
 tgatcgcat tgcaatcggg aactttgcaa acacagtga caccctgggt accaagttcc 360

ggttcaaggc gaagatgaag aaatccaatg gcaaacggga ccttgacaca tgcccctcgc 420
caacaggttc a 431

<210> 18479
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-E1

<400> 18479

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atctaggcta atgatgctcc tactaacgct gcctttgatt gatcactaat tctaactatc 120
aattatccat attattcata tcatataatc atgatttcaa gtgagcaaca tctgtttatac 180
atcatctata catacattac actttaaaat taccatgac ttgaataaac tcaacttaaca 240
atccaacctt atagacttaa tgtgccccaa atgttcaaat ctctactata gtcaagttca 300
caaccattat tgaacatata cgttacaaag taccgtcttt caccctattg cttcttatgc 360
tacacaacat gtatcccata attggaaggc tcttgacaga tgactttata ccata 415

<210> 18480
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-022-Q1-K1-C5

<400> 18480

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gagagagaaa agagcaaggc atgcttctat tctacctggc aaggagagac ttaaagagat 120
tcttgaaggc cacgagaaga actgtcttgt cgcattccgt atggagcctc gtatattcaa 180
agatatagca acatttctta gagaagaaca catcctatgt gacacaaggc gtgttaccgt 240
ggaagaaaaa ctaggttgtg tgtgtgtgtg tttttctttc tttcctcctg aacttgcaaa 300
gggcgctatg ccacctgtgt tcaaagata cacaacatcc aaagagaaa catgaggagg 360
aaacatgatg cactcctgcc tggcaacaga tctnccat gtctgcactc tctacatcat 420

tggacacact ntattnctgg cagatagtag ttaagtttaa tttatgtttt cttt 474

<210> 18481
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B10

<400> 18481

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gtggccccag ttggaaaccc aggcctctga tccacttaag tttagccaag accttctctc 120
agatggatct taggggtctt ttgctggaaa aaacgaaaac tgagcttaaa aacaagctaa 180
cagtaataaa aagtaaaaca tcccaagttg ctagtgaaaa agcgagcaag aaaattgcgg 240
tcaaggaaaa tgggtggggat aatgaagctc ttggaccaga agatcctaca gctattaaag 300
attctcatga ttcagaacag actggttcta atactagcac agatgctgaa aatgaagatg 360
atgaccactt atcttataat gttcctgac cagatttcca tgattttgac aagaatcgca 420
ct 422

<210> 18482
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B11

<400> 18482

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gctgtacttg aaaagagcca aaagatggca cagcaaaatg gacccctctgc tgctgaaagc 120
acaaactctg gcagtactca agatgcattg aataagcgat tggagcagct tgtcaattcc 180
catcctgggt ttttaatttat gaagggaacc ccagaacaac caaggtgtgg tttcagccgt 240
aaagtgggtga acattttgaa gcaagaaggg gtcaaatttg ggagctttga catccttaca 300
gataatgatg ttcgtgaagg tatgaaa 327

<210> 18483
<211> 444
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B12

<400> 18483

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aagtgaccga gtaaaaacaa tgggaccctg ttacagaaac taattatagg ggcgggtatg 180
ttcttgggat gctttcatgt atagttgctg gagttagaaa ttttctcagc agatagcact 240
gcatggcttg aagtaactaa ctgagcatgg atctaaagac cgtttctttt cagaaaattt 300
gcacacaata aattgtgttt ccagtgtgct ctgtcacaat acttagctct tcacttcttc 360
cctactcata ttttggaAAA aaaatgacaa catcctatca ccccaggtaa ggatcttctc 420
tgctgaaaac gttcagactg agct 444

<210> 18484

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-022-Q1-K1-B2

<400> 18484

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gcggtcctgg cagcggcgct gctgctgctg gcggcggtgg ccgggacggc gtcggcggcg 180
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tcggcggcgg accggcaggc cacctgcaac tgcctcaaga gcatgacggg ccggctcggc 360
ggcggcgctca gcatggccaa cgccgncaac atccccggca agtgcggcgt ctccgtcggc 420
gtgccccatca gcccaccgt cgactgcacc aagatcaact gat 463

<210> 18485

<211> 484

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-022-Q1-K1-B3

<400> 18485

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atagccatgt gtgtatgtgg actattccct gaagggtatc cactaaattg ttcatttcca 120
gatttagata ccatgcctaa atgtagtgcc ctgataccat gaattagctg agatccaaca 180
cctattttat tgatcacaat tgtactttta tgtatacaac ggcacatgat gctcttgatc 240
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accatagcat tttgcaaact tttaccatga atgtatgatt gccgaacttg ttaactgaat 360
ttatcagttg aactactttg cttatagcat acacacttaa cacaatatca gcctgtgaaa 420
ttctgggaag gtggattttg ctttttttcc cttgtaattc gcaatttcac agatgatctt 480
gaat 484

<210> 18486
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B4

<400> 18486

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ccatccatat acccttggtg gatcggttcc aagcctggca ggccgaatac aaccgcacat 180
atgcgacccc agaggaattc cagcaacgct tcatggtcta tagcgagaat gtcaagttca 240
tcgagaccat gaaccagcct gggagctcat atgagctcgg tgagaaccaa ttcgctgacc 300
tcaccgaaga agagttcaag gacacgtatc 330

<210> 18487
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B5

<400> 18487

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tcgggagggt gctcttcgtc gccgctttcc tctctccgc ctaccaggag tttaatgaat 180

tcggtgctga tgggtggacca gcagctaagg cccttcggcc caaattcaac gtgtttgtca 240

aaaatgtatc tgctcatctg ggagtagctg tgccacacat tgagttgaag catgtgattg 300

ctgctacaat tggctttaag ggtcttgga gctcctttt tattttgagc agctctctcg 360

gtgcttatct cctgctgctg taccttgctt tgatcactcc tatcatccat gacttctaca 420

actacgatat ggagaaggca gaatttgcag gcctctttgc gaagttcacc caggatttgg 480

<210> 18488

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B6

<400> 18488

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tcacaaggct atctcgaaac cggcagcaag ccatagattt gtatcttctg acccggtatga 180

tgccgatgat gatcctgggt cttatttcat tagtgctgtc tgctggaaga gtgatagccc 240

tacgatgtta actgctaaca gtcaggggac cataaaagt cttgtacttg ctccttgatg 300

ttatggaggg cgttcaagag gttcacagta ctgtccagtt gtttcctttc gtgtcattat 360

attcccccaa aattgggaac ggtggcataa ttgatctccg gttaggaat gaagttttgc 420

agatggtcag ctgacgtagg gttttgaggt atcagaatgt gcatagtcat gt 472

<210> 18489

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B7

<400> 18489

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ccaccacaag atggacgagg agcagcccgc cggcgagtac gggacttccg agaccgatgt 180
ggtcaccgac accggcgagg gcgagtacga gaggtacaag aaggaggaga aggagcacia 240
gcacaagcag cacctctgcg agggcggcgc catcgtcgac ggcgccttcg cactttacga 300
gaagcacgaa gcgaataaag acccctagca cgctcacagg cacaagatca ccgaggaagt 360
cgc 363

<210> 18490
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B9

<400> 18490

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gtgcatctcg atccacatcg gccaggccgg tatccaggtc ggaaacgcgt gctgggagct 180
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ccgtgctgtt tttgttgacc ttgagccac tgtcatcgat gaggtgagga ctggcaccta 360
tcgccagctc ttccatctg agcagcta atcagtggcaag gaggatgcag ccaacaactt 420
cgctcgtggt cactacacca ttggc 445

<210> 18491
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C1

<400> 18491

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ccttgcgggcg gcgggcgggcg tgctcctctg cgtgctcctt catgcccacg tgcgggagtc 180
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 tggcaagcgc ttcaaagctg gggacgtcct agtgttcaag tacgactcga ctgcgcacaa 300
 cgtggtggcg gtgaacgc 318

<210> 18492
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-022-Q1-K1-C11
 <400> 18492

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 taattaatgc agtataatag ggggctagaa ctgatgaaaa actatggtta caaaaattta 180
 taaaaatcta tcgaatctga taagcgtgtg cattgccctt gacaggttgg acaactcatg 240
 tagcatgtta ttttggttga ttgtctctct ttttttttaa aaaaaactat ctgtacagtg 300
 catattgaca caaccatttt ctcaggtctt tgatctttca gttgtgaagc cttcagattt 360
 tgttcaccat ggtttgagtt gtttgagag gttagctgac caaggcgata accgtgcgaa 420
 ggctgttcgt gagaaaatg 439

<210> 18493
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 18493

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 gtggtgcacg gggtcgaaag cagacctata ccacgttatg atctacatgt tccttagccc 180
 aacagatgat cttagtgaga accagttgtt tagtggccag aagacagtgc agcttgttct 240
 acttctgctt gctttagtgt ctgtaccttg gatgttgatt ccaaaacctc ttcttttgaa 300

gaaacaacat cagcaaaggc atcaaggtca ccagtagcgt atgcttcang gcattgatga 360
atcagtggga gcagaattgg gggaacatca tgaggacgca catgacca 408

<210> 18494
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C3

<400> 18494

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aggcgaagcc gaagaagcac acggcgaagg agatcgccgc gaagatcgac gcggcgacga 120
cgaaccgggg cggcggcaag gccgggctgg cggaccggct ggggcaggac aagggcgggc 180
atgcaagct ggcgtgcccgc ctctgccgca ccccggcgcc cgacatcaag tccatgcaga 240
tccaccacga ggcgcgccac cccaagctcc ccttcgagcc ggagaagctc ctcaacctgc 300
ac 302

<210> 18495
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-022-Q1-K1-C4

<400> 18495

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ggggctgctg ggttcgtccg cttcggcggc gatcacctgc gggcaggtgg ggtcgtcgtc 120
ggcgccgtgc atcccgtacg cgacggggag ggccagcgcg ctccccgcgt cgtgctgcag 180
cggcgtcaag agcctcaaca gcgcggcgcg gaccagcgcg gaccgccagg cggcgtgccg 240
ctgcctcaag agccccccaa cagcgtcaag agcgtcaaca tgggcaccgt cggcaccatc 300
cccggcaagt gcggcgtctn cgtcggattc cccatcagca tgtccaccga ctgcaacaag 360
atcagctaag ttacgacgac caagctaata agcctaccga acgtacacgt acgccccgcg 420
cgctgcacga gtgatgaaac cagggaagaa aataaa 456

<210> 18496
 <211> 472
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B1

<400> 18496

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 tgggggttgac gggatcccggt ccccgccccgc ccgccccgcc ggcgcgcgcg ctggtccgga 120
 cgctcgggcg ctggtgatcc ggttgatgca gcagcggggc ctcgccaca actgccgctc 180
 ccgcggcttc tcccgtccc gacgcgcagt cgagggcgcc tgaaacgcac ccgtcccacg 240
 cacgcagggc aaccgaaaac ccctcgatcc ggctctctc gcgctgtagg ctgtataacg 300
 ccgtagacga caacggagga gaacggggac gaataaaacc caacacaact accggcgctcc 360
 gtataggaac gaaggactcg agatggacac cgtcagcgtt cccgtggtgg cccgtgcgaa 420
 tgggatccgg gaggtggagc gcaaggtgca gaaagactac tgggaggagc ac 472

<210> 18497
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H5

<400> 18497

aatggaaaag ggcaattgca gacgtcctga tattctatcg ggaactctct acatgatgga 60
 tgggtgaata tgggcacctg gaaggtaagg gaaacacacg cccattctca caattgatca 120
 catgttcattg ctctctggaa ctccccatta tgcattcaca aggggataat ttggtgatac 180
 atggcaaacc ggtgtgagtc tatagtataa ctggctgtaa tggaactatc acatcctagg 240
 aaataggcca attaaatttg ggcttgatt taaaatcggg attcttggtc aatatgaaag 300
 atagcactat attccaaaat aaaaag 326

<210> 18498
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H6

<400> 18498

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cgctttgggg acgggattgc cgaccggcgg tgctgcacct tcctggagat cctcttcgcc 120
atcatccttc cggccctcgg cgtcttcttc cgattcggct gctgcagaat agagttctgc 180
atctgcctgc tgctcacaat ccttggctac gttcccgga tcatctacgc gatctatagg 240
cctggtgcgt ctcgactctg accaccacga gagggaaatc tacacccttg cttagagcat 300
ctggttgctg caagcggggc tgcacagatg agtcgaaatc agtatttttt ttctcatgtg 360
gattgtctga catggcatat acggcaatgg gtaaccaagt gttgtgggct atatctctgt 420
tac 423

<210> 18499

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H7

<400> 18499

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tgtcggtcgc aaccaaataga aggacgtact gagccatggc atccaagggc gtcctcttct 120
tggctctcaa cctcctgttc ttcacagtgg ccaacgcctg cggcagctgc ccgaccccaa 180
cgtcgccggt cgtgccaccg ccgccgacgt ctgcctctgc acggtcacatc agggcaacgt 240
cctcggcgtc gtcttcgatg tccctatcaa gttcaatgcc ctctgcaact actgtggcaa 300
gtgcgtgccc aagggtaca tgtgtgcgta agtcgcgcgc gggtacacgc tcgtagccgt 360
tcgcgtgcgt aattaagcat gcacctgcat ggcacacatg tattgtgcgc ctgctgatct 420
ctcctgtctc atttgtgcac ctttaagttct acagtcctag aaccatat 468

<210> 18500

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H8

<400> 18500

gtcgagcacg cgtccggtga tagatccccg ggctccacgc ctccacaacc atgtcgtccc 60

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cctcttcgcc atcatectcc cgccccctcg cgtctttcta cgattcggct gctgcagaat 180

agagttctgc atctgcctgc tgctcacaat ccttggttac gtccccggaa tcatctacgc 240

gatctatgtc cttgctgctc tgcactctga ccagcacgag aggggaatact acacccttgc 300

ttagagcatc tggctgtgcc aggcgggcct gcacagatga gtccaaatca gtatatatttc 360

tctcatgggg attgcctgac atggcataag cggcaatggg taacca 406

<210> 18501

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-H9

<400> 18501

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ggcggtgcga cgggtgcaag gagccccgca gcggccaggg gcggcggtac aggtgcggcc 120

acggctgcga cttcgacctg cacgtggcct gcgcgctggc ggggccgact ctgaggcacc 180

ccctcttcgg cgagggcctc gagttccagc tcttcccga ggcgccgtcg cccgtcgaca 240

agacgttctg caacgcctgc ggctgcggg cggccggcct cgtctaccac tgtttcgaca 300

gggacctgga cttcaccgc acctgcgcg cgctgaagcc ggagagcgcc ttcccgggcg 360

gtcacctggc ccagctcggc tgggaggccg ccgagcaccg ctgcgtcgcc tgcgacgccg 420

tcgtcgtcgn cggcaagagg ttctgggcgt a 451

<210> 18502

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A1

<400> 18502

tgcaatactt ccatgagaat gctacttttg ctactgttgt tggccgaagg cgactcctgt 60

gatggatctt tctgggaçag taggtgctca aggagttgca tttgatgcat aagctgggta 120
tgacactgct acaggaaaat ttaccaagta cactgctgca attggtgtaa ccaagccaga 180
ctaccatgct gcattcattc tgtcggacaa atgttacacc attaaagtgt caggtgttta 240
tcaccttgat gagaaacaga atgcctcagc tgtagctgag ctaacccgga ggctctcaac 300
aaatcagaac aactcacag tccttgact gtacacagat gatccccata cagcttttat 360
aagctagact caatatcact ggaacgcttg ccgcgcttct ttagcatgag 410

<210> 18503
<211> 149
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-022-Q1-K1-A10
<400> 18503

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tccattcatc ttactagccc cagtttaaca tcgagcgggtg cttgagccca taatgttgca 120
atcgaaaccc attcacttat tcattcccc 149

<210> 18504
<211> 295
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-022-Q1-K1-A11
<400> 18504

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gggccacgcy cgacgacgtg tcggcaaaca ctcagtcctat cccaagactc gcgaggcgat 120
gggtggacgcy tgggtggcctc tgctggggcgc ggcgatcccg gcgctggtgg cgggtcagtt 180
tgtccgcac c aagcgccggc gcgacgagga gcagcgctc aaggcggcgc gcgggcggga 240
gaagagctcc gacgaggtat tcgtctgcga gcgcgtgtgc accttaagc gtatg 295

<210> 18505
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A12

<400> 18505

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agctagctcg ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc 120
aaccaccaca agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag 180
gtggtcaccg ccaccggcga gggcgagtag gagaggtaca agaaggagga gaaggagcac 240
aagcacaagc agcacctcgg cgaggccggc gccatcgccg ccggcgccctt cgcactctac 300
gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag 360
gtcgtgcccg cggcggccgt cggcgccggc ggctacgtat tccacgagca ccacgagaag 420
aag 423

<210> 18506

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A2

<400> 18506

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ccggggcgcc gtcggggagg acagcgccgt cacgatgttg gagttgcgtc tgggtgcaggg 120
gagcctcctc aagaaggtct tggaggcgat ccgcgagctg gtcacggacg ccaacttcga 180
ctgctccggg accgggttct cgctgcaggc catggactcg agccacgtcg cgctcgtcgc 240
gctgctcctt cgcgcggagg gcttcgagca ctaccgtgc gaccgcaacc tctccatggg 300
catgaacctc aacaacat 318

<210> 18507

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A3

<400> 18507

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actaaggcta ctctgtgaag ggatctttgt gtgacagtat gttctcaagg agttgcattt 120
 tgtgcaaaag ctatgtatga cactgctaca cgaaaattta ccaagtactc tgcttcaatt 180
 ggtgtaacca agtcagtcta ccatgcttca ttcattctag acgacaatgg tgacaccatt 240
 aaagtttcat gtgtttatca ccttgatgat aaacataatg cctcagctgt atctgatcta 300
 actctgaagc tctcaacaaa tcagaacaaa cttacattcc ttgtacttta caca 354

<210> 18508
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A4

<400> 18508

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 tagggggatt agcatctagg attttctaga gtagctgctc gatggaaagg taatccacga 120
 gcaaacaaag tccgactttc aaaaatgtcg gcccgctga atatcttgag ctgaggagtg 180
 ctggactcat tattcagttc cctcaaaatt aaagaagaaa gacatcccct acctatccac 240
 agcggttctc tctaaattgt cctgctata tcattttttt gtgtcacatc aacattccat 300
 ctgctacttt ttcaatctcc gcaacagttc ccctaaata cttttcctat accttaattc 360
 caccattaaa tattaattcc cataactatt cattatccgt tacatttttt cgtcaactaa 420
 caaaccataa cttacacaga aatcg 445

<210> 18509
 <211> 467
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A5

<400> 18509

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 aaggcgactc ctgtgattga tctttctggg acagtaggtg ctcaaggagt tgcatttggt 120
 gcagaagctg ggtatgacac tgctacagga aaatttacca agtacactgc tgcaattggg 180
 gtaaccaagc cagactacca tgctgcattc attctggcgg acaaagggtga caccattaaa 240

gtgtcaggtg tttatcacct tgatgagaaa cagaaggcct cagctgtggc tgagctaacc 300
 cggaggctct caacaaatca gaacacactc acagtcggtg gactgtacac agttgatccc 360
 cagacagctt tgaaggcaag actcaataac actggaacgc ttgccgcgct tcttcagcat 420
 gagcttaaac ccaagtcgct cttgacaatc tctggtgaat tcgacac 467

<210> 18510
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A6

<400> 18510

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 aatgcgacta ctgtgatgga tctttgtggg acaatagggt ctcaaggagt tgcctttcaa 120
 acagaagctg tgtatataca ctgctacatg aaaatttacc aagaacacta ctgcttttgt 180
 cataactaat ccagactacc attctacatt aattacgtcg gacaaatgtg acaccattaa 240
 agtgtctaag tgttatcacc atgatgataa acagagtgcc ttatctgtgg ctgatctaac 300
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 caagacagct tc 372

<210> 18511
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A7

<400> 18511

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 aagaagcagc agcagaagaa gaagacaccc accaccagca gcaagcagca atcagcaacc 180
 agcataacga aatgtcgatc aagtactgcy accagcacaa ggactgcyag cggcagcgctc 240
 tgtaccgctg cttctgcgcc gtccgtgtgg gcgtcatcgt gctcgtcctc ctcacgtgctc 300
 tcatcgtctg gctcgtcctc cgccccacca agcctcgctt cttcctcaac gacgtgagca 360

tcgtgtgcat caacgtcagc tacgtcttct acctcaccgt caccatgcag gccacgctgg 420
cgtcgcgcaa caccaacgac cgcgtcggca tctactacga ccgcgccgac gtgtacg 477

<210> 18512
<211> 473
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-022-Q1-K1-A8

<400> 18512

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gtgaggagct cccacacctc gacggctggc ctgctcgcgt ggctcacc ccatggcgcc 180
gggtcgctgc cagcagccg gcctaaccag ccgacggagg aattcaggaa tgtggtgttt 240
ggggggcagc tcacggaggg ggccgacggc ctcaacaaga cgaagaggaa gacgggctcc 300
tcgccaagg ggaaggagac aacagggacc gggatatcca aggccgagag cgcgctcgtc 360
gccgtcgcaa ctgcctcccg tgatcgtcag gctagccaga tcaccttttc ccaggacggg 420
accgttccta ccaggaaggc aatttcagt gctgngtgg caaggcagcg tga 473

<210> 18513
<211> 488
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H4

<400> 18513

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cgagaagttg ggctgaagc ccggacgctt tctcccgaga taccgcaata ctgctagagc 120
actgtcacta atgtttgcct atgacaatgg agtcacctac aactgccgat ggtggtgaac 180
tgagagacta cttctccttg ggtttgacag tatcccactc acagaaagat aatgctgaat 240
ttccaaaggt tctgttgctt ctctcagcgt atcttgacaa gacagttcag cagaatgaag 300
agttactaga ctgcagtaaa ataaaggagt cgaccactat ctttcatggt cagaggggtgc 360

ctgaacttag tataaagctg catgcagagc gtattttcaa gtatgcaaag tgcagcccat 420
 cttgctttgt gctagcactt atctacatgg agagatatct acaacaacca aacttttacc 480
 tgacggca 488

<210> 18514
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-G1

<400> 18514

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 cgtgctggcg ttgccgtcga ctccatcgag ttcacctata ctgacagcgc tgggcagagg 180
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 acctcgctca ggctcgtcac cagcagcaga acctggggcc ccttgggggt cgagaacggt 360
 acgcgtttct ccgtcacggc gcccatcggc agcagcatcg tgggattcta tg 412

<210> 18515
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-G10

<400> 18515

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 cgacctgaaa actctgttac gactactcac ttgcataata ctagatacta aatacttgag 180
 ttctacatac gatacactaa ctcatcact tgcctataca tatacatgca taactattac 240
 actataatat ctttctca 258

<210> 18516
 <211> 457
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-G11

<400> 18516

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acattggcctt gaataattgg tgtgcgagga gtagaagtgc gtccggttat aatcttataa 120

gagcagagca ttgccgtggt gatacctgag tttctttggt gggccttgact ctatatgaca 180

gagaagggat cgggtgttaaa catgagatct gcgtaggggg aacctaattt ctgtttttta 240

gcaatactgt actgtcgttt tgctatcaag tatatttgac cctcgattat atagattaca 300

ttgaagtttt tgggcaacaa tgtgaaatct tgtgataaat ctctgtgctt attgggtatc 360

tgattgtaac tcgtcctttg taaactttgt ttgaatgagc aagtgaactg attgtcgata 420

aanaaaaaat tccacattat acttacacta tagcttt 457

<210> 18517

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-G2

<400> 18517

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caccgttcgt gctggcggtg ccgtcaactc catctagtag acctatactg acagcgctgg 180

gcataggcgc tccgctgggc gttgggggtg acttggtggc aatgttcgaa cgatcgacct 240

tggcaacgcc catgatgtca tggaagtctt tcgaacatac ggcgcatctg tacgtgccac 300

tactctaacc tggatcatgc tcgttacctg cagcttactc tgtggtcctt tctgcgacta 360

taacctgacg cgcattattc taaccgggac catagacatc atcatcttgg gattctatgc 420

tc 422

<210> 18518

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-G3

<400> 18518

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cgatggcggc tgtgctgaac agcaggaaga cgccgcaggc ggtggtggcc gtgctggtgg 120
ggcgggcgct gctggcttcg tccgcttcgg cgccgatcac ctgcgggcag gtggggctgt 180
cgctggcggc gtgcatcccg tacgcgacgg ggagggccag cgcgctcccc gcgtcgtgct 240
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gccgctgcct caagagcctc gccaacagcg tcaagagcgt caacatgggc accgtcgcca 360
ccatccccgg caagtgcggc gtctccgtcg gattcccat cagcatgtcc accgactgca 420
acaagatcag ctaagttacg acgaccaagc taataagcct accgaacg 468

<210> 18519

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-G5

<400> 18519

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caaaaaaggc atcatggacg ggatagaaat gagcgaagaa atccatgtcc agcttaatcc 120
cgaagaaaaa gaaagtttag ataaaatctc agggagctga gagcgacttg gagtctgaag 180
aagtcttggg tcaatccctt gccattggtg ccgagaatga aggtctggac aaggacgcag 240
ctgcaaaaact cacaatttac actgtagggtg gtgttttgaa gaatctgaca gagggccctt 300
tgagtgttat ggataagcac atatatgcag gacacactgt caaaccatctt nccagcctga 360
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<210> 18520

<211> 321

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-G8

<400> 18520

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ggacatgggtc acgcaccggt acagggtccg cggggacgtg cgcaacgtgc acctcgccgg 180

gatgggggtgc agcgcggggc tcgtctccgt ggagctggcc cggaacctgc tgcangtggc 240

gccgcggggc acgcgcgctc tgggtggtgtc cacggagacc atcaccccca attactacat 300

gggcgaggag cgcgcgatgc t 321

<210> 18521

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-G9

<400> 18521

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gcagcacggc ctcttcaagg acctatggaa ggacacggac agtaacgcgg atgctggtgg 120

tgaggtgcag ccaactgctcc ggcaaaacct tgtgtaatac tcctacaaaa tacggagtac 180

ttcctgggat ggactcacgc cctcgctggc ctatacatat acgtgtttat ttatttgtct 240

atgtttgttg taacatggta tcgtggtgaa caaaagaaac tgaacatgcc attgttactg 300

tgggtgtggc tttttgtac acttttgata cctaaatgga actcctatga tttgggtctg 360

gaaaggggtg gtgaagatgt tttgttccag gttttggagt tccgctccca gaatggcttg 420

acaagcatgt taattccatg 440

<210> 18522

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H1

<400> 18522

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ttcaactgta agctaactta aacaaacacc cattctcacc attactcaat atatcattac 120

ttcttcaact acccattatg cattcacaaa ctcttattt attaatacat tccaaaccta 180
 tgtcagtcta ttgtaaaact cactctaatt aaactatcac attctaaca atatattcaa 240
 tttta 244

<210> 18523
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-H10
 <400> 18523

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 tgtatgccct ccgcctgctg agatggcagg gcaagttgtt acttaccttg aggagaaagg 180
 cttcctgcac gagtaggctg aatccaagca acatctgggg aagatttcag taagactagc 240
 gcagaataag tcaaaggcgc tggcagttac ggtatagcag ttgcatagat tggcctcaat 300
 gccttagtat tttctttccg tacttgctct tccacaggct ccatgcaatt tcattcagat 360
 gagcctggat gggttcctaatt ttctttgacc tctagagtag attacttgta atgcaactct 420
 gataactact tggggcagta tcgatgtggc aatcgc 456

<210> 18524
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-H11
 <400> 18524

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 gctaggctat ctcaatggag tgacctacat gtgcggttgt aggtgcaatg gtgagctact 180
 gcttcttggg tatgacagta tagcactaac agatagatga tgctgaattg ccaaagggtcc 240
 tgaagctctg tctagcgtat ctggacatga cagttaatct taatgaagag tgactagact 300
 gcagtaagat catggagtcg accagtatct ttcatggcca gatgatgcct gaacttagta 360

tataagctgg atgcacagcg tatgttggag tatgcaaagt

400

<210> 18525
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-021-Q1-K1-H2

<400> 18525

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tggtctttca cctacagtgg gaagcgacta caaaccagac cagctgtctc caaaaaagat 120
tacttaaact gcggcacaaa agtagcgcat ctatattcac atgggagaaa tggaacttca 180
tggaccggtt tctcgttttc cactaggaag gattcactcg atcttcagtt ccacatacgc 240
tgcctttctg cactgttcat tttgccaga tttcgatat agcaacaaca aatgccctaa 300
gcacaagcca gaatagattg tcatctttct tctgctgagc tttcaaagtt ctctaatat 360
actgctgccc tttgtgacgt gtgaaggaaa ttataaacag taagcatgca acgcanagtt 420
aggaggcana gtgcatgcct gctgatcact gttgcagtgc taattcc 467

<210> 18526
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H3

<400> 18526

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gggccaacat gcacttgcac cgacagtgg aagcgactac aaaccagacc agctgtctcc 120
aaaaaagatt acttaaaactg cggcacaaaa gtagcgcatc tatattcaca tgggagaatt 180
ggaacttcat ggaccgctat ctcatatcc actatgaagg atccactcca tcttcagatc 240
cacatacgtc gactttctgc actgatcatt ttgccagat tctcgatata tcaacaacaa 300
atgccctaag cacaagccac aatagattgc catctacatt atgatgagct atcaaagtgc 360
tcctaataata ctg 373

<210> 18527
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-F9

<400> 18527

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gggtactggcg aggacgtgaa gaagatcgtc accgtgctca accaagccga ggtgcccctct 180
gaagacgtcg tcgaggtggg ggtgagtcgg cctttcgttt ttctgcagca ggtcaagggg 240
ctgctgcggc tggacttcgc cgtcgcagcg cagaactgct gggcgcgcaa gggcgcgcc 300
ttcaccggcg agatcagtgc tgagatgctg gtaaacctgc aagtgccttg ggtcattttg 360
ggacattctg agcgcagagc tctgttgggt gaatccagtg attttgttgc tgataaagtt 420
gcatatgcac tcactc 436

<210> 18528
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E4

<400> 18528

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gaagctcagg gtgggtctggg actcgcaggt caacgacgag gagcagtggg cgctcaatta 120
taagctgctg aaggctgctg gtctgtttgc gggatccatc ttcttgatgc ggaacttcgg 180
tgatctgatg gccatttagt aggcttatca gcgttgttta cttggatcct atgagtgttg 240
ttttgatgtt ccaataattc ctgctatgaa tatgaaagtt attttgctct gaagaggact 300
agatctgtgc cgatagtgtg tgatcttaga cttttagacc atagagatta gaccctttaa 360
tattcggcgt gtaccgtgga tattttggaa cgatggatc agtctgcacc cataataaat 420
tttgatttga tgggttatta ata 443

<210> 18529

<211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-E5

 <400> 18529

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 gagcgtgcaa ccggcgacgg ctcaagtccc ttcaggctca cctcgccggc aaaacctatg 120
 tgtctgggga ctccattact aaggatgaca ttaaggtctt cgccgcggtg ccgtcgaaac 180
 ctggcgctga gtttcctaat ggccgccgct ggtacgagac cgtctctgcg gctgtagcct 240
 caagattccc tggttaaggct gttggtgtaa atctgcctgc gggatcagct cctgcggcag 300
 ctgctcctgc ggatgaagct gaagatgatg atgaccttga tcttttttggg gatgaaac 358

<210> 18530
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-E6

 <400> 18530

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 cactacgaag acaaccaatg acggtttatg gtgatggaaa acaaactcga agtttccaat 180
 atgtttctga tctggttgct ggattgatgg ctctaattga gagtgatcac attggtcctt 240
 tcaacttggg aaaccagga gagtttacca tgttgagct agcacagggt gtgaaggaaa 300
 caattgaccc aatggcaacc attgaattca aaccaaacac agctgatgat ccccatatga 360

<210> 18531
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-E7

 <400> 18531

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tgggagttgg attatcagct cccagagact aataaccata ataaggtgac aaaggcagaa 120
 gcgatgaacc agtcttgggtc cagaccagca gcagtaagga gcaatgcagg aaatcatctt 180
 gccaacgacc tgaacccccg tgtacctgac cttgccgaga agctgtctca gttgtcaatg 240
 ggcccccaaca ggggtgtcggg tttgggttcc gagaggtttg ttagaaccga tgagaacgct 300
 gccaaagcgcc ccttgcccgt gggatccagg gcgtggcatg gtccagctga ccccttccgg 360
 cgcccatacg agatgccagg tgatagaact c 391

<210> 18532
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-E8

<400> 18532
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 actacatcga atgcagctcg aagaccaac taaacgtgaa gggcgtcttc gatgcggcga 180
 taaaggttgt gctgcagccg cctaaggcga agaagaagaa aaagggtgcag aggggggct 240
 gctccatttt gtgatctaata catcggtaga tgaagaagaa agggcgaagg tgccatggct 300
 ttatcatcgt cgcgtcttgc ttcagtggaa cggcatgaat ggtccccacc ccctctaggt 360
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 tt 422

<210> 18533
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-E9

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 cctgggcaca agtgggaggt catggtggat ttgttcttct acagggaccc agaggaagca 180

aaggagcagg aggaggaagc tgctgttgcc cctgagtttg ccgcaatcac tgattaccaa 240
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 cctactggtg ctgattgggg tgctgctcca gctccggttc ctaccggtga tggctgggat 360
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<210> 18534
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-F1

<400> 18534

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 ttttgtttga ggacttcctt tgggcaaact caatcttctg gactcgagca ctgaacatac 180
 cattgcctca ttcttatggt tttctgggct catgtggcga tcaacaggcc aaggctgaca 240
 atgatgccc ccaggaaatt gatattacag ctaaagattg tagtgctgat gagaattcta 300
 aaccaagtaa cacagagtca atttgggttg agggccttgt cccagggaatt gatttctgca 360
 atcataatgt aaaggcactt gcaacatggg aaagtgattc tgtgggaaat gctaccggaa 420
 t 421

<210> 18535
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-F11

<400> 18535

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 agggcacaaa gaagataatc aataagaaga aattgagcag ctgttgttgt ttgcctctc 120
 ttattcatag ttcttctaata gacattggac ttatactcgt cttctccaat gggaaacttg 180
 aaataagatc cctgccagac ttgtccttgt tgaaggatgc ctttttacga ggttttgtgt 240
 actcaagaaa cttgaattca agtagttcca taacatgttc atctgatgga gaagccatct 300

tgattaatgg agaagagacc tatttttttct ctacgctctg ccaggatgag atatacaggc 360
acgtagacag cattagtaca gtgtacagaa aagagaactc aaccagggaa gactcttctt 420
ttgtagtg 428

<210> 18536
<211> 308
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-021-Q1-K1-F12
<400> 18536

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agaaggcaat ggcggccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc 120
ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga ctcatgcctc gcgcaggacc 180
ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggtgatg gtgttcggcg 240
agatcacgac caatgcgacc gtggactacg agaagatcgt gcgcgacacc tgccgcgaga 300
tcgggttc 308

<210> 18537
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-021-Q1-K1-F2
<400> 18537

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acttgacctc aagggttga agaaagcaga ccaacaagct atcctggagg acttcaacaa 120
acacgcccct gcaccagccc ccgccatcaa acacctgcc gttgctcga cggtggcgac 180
accagttgcc acagcatctg tccagattgt gccatcgggtg gcaactccag ctgtttcgat 240
tacaccaagc atggcctcct tgaaggagc actggcgaac caagaggacg tcctcgcccg 300
agctgccgtc cttggggcgcg gagcagccac cacgggcttc aagaggttcc ttgcattgac 360
agaggccgtc aaagatcgca aggatgggccc gatccgcaag ctcttcaacg cctaaaatgt 420
cgctcacctg tgagttcata 440

<210> 18538
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-F3

 <400> 18538

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 tgggatgaat atggcatttc atttgc tcaa ccaagctcca atatcagcat aagcgacatc 180
 acaggggaga caagaggtgg ttcagggatt gcctttggaa gtgagatgtc aggtggcata 240
 tcggaagtac gggctgtggg cctgcgcatt gtcaactccc ttcacgggat cagaatcaag 300
 acggccccgg ggcgcggagg gtacgtggag aatgtgtaca tagcagatgt gagcatggac 360
 aatgtttcga tggccatcag gatcactgga aactacggtg aacatcctga tgacaaatat 420
 gacagcactg ctctccctgt gataagc 447

<210> 18539
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-F4

 <400> 18539

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 tcacatttca tacttgacct ttatcagcgg atgagacggc tgcaaattcc gagaaagcca 180
 gcattgccga agttgagcca ctggtaaagg atttcgcgag ccggtataag gccgcgatcg 240
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 aatcaagaa gtattctaag acgttt 446

<210> 18540
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-F5

 <400> 18540

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 ttacctgtgt gcctcccagg ttcagttcat atgttgatg tattaatgta tatcagaaga 180
 gtcgtgctta gtagtagcaa gaacctagtc ctgatccaga ccgtgaatct ggatcatctt 240
 gtcctgtggt tgtaccgtgc agaacagaca gatgtcggct agtcgtttgg ttctgaagta 300
 agaaactata agcatgcgtg attttggcc 329

<210> 18541
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-F7

 <400> 18541

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 cgtgcagacg accgccttct ccggcctctc cctcgggtgac tccatctggt ctccggtcac 120
 cggcgccggc gggcggcgca acaacaacac cgacctactc gcggcctccg cgtcggcagc 180
 cgacgccggc aagcacaacg gcgtgggcct cagcctgaat gatggagggc ccggactcat 240
 tggctccggg aagctcgtct tcggcggcag caaggccggc cgctacaaca acctcccatc 300
 cgagaaggcc gcgcccgtct acaaccacag cggcagccac gatcaacggc ggctacgcca 360
 ggagcgacaa cgccggcctg gcggcggttca acacgatggt gagctacttc 410

<210> 18542
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-F8

 <400> 18542

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 gcggaccatc agggagctat agtgctggtt ctgttagctt acagcaacca aggaatgaag 180
 agcagcttac gcctgatgtg gagtcagctc ttctgcagca aagtcttgca gctgacaccc 240
 gagcagctga gttcgttgcc accagagcaa cagcagcagg tgattgagct ccagaagatg 300
 ctttcagtta gtaaatagaa gcaactgaga gctaacgcag caaaaatgct gggttgagaat 360
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 tgttatgaag tcaccacgcc ggct 444

<210> 18543
 <211> 466
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-E3
 <400> 18543

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 gcagctactg ccgaggccat caagcatcat ctcgctccaa gtgggtctcg tcgaaagctt 180
 cagcctcaag tgggaggtcg taggccagga gcctaaggca tgcgtgagga tccttccgca 240
 ctttgcgcca aaacaagtcg aagctgtcgc gcgagaaacc ccagcggagc ccgtcgactc 300
 ggactgggag agccacgatg actcggatca taccagagt ggcatcacca agctaccttt 360
 cctaccgat tagcgnccgc tctggcgat cctntcagtt cttcgtggcc ctgccgnctg 420
 ctgngtatgt attcatnta attaacttg caccca 466

<210> 18544
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-C8
 <400> 18544

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cacgcacgcg aaagctcgcc gacttcttcg gccagacgta ccacgaaacc accactagat 180
gggccactgc tccgcatgga ccgtttgcct gcggatactg ccggatgaac gaacagaaac 240
acacggaccc accctactat ggactaggac ccatacagct aactcataag tacaactaca 300
ggctcgccga gcaagcgctg aacctgaacc tgggtgggcca ccagacctg atgacgatag 360
accccatggt agccttcaaa accgccatct ggttctggat gacgccgcaa acacca 417

<210> 18545

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C9

<400> 18545

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gtgcttctcg cataacgtgg agtatgaggg ggatactgtc catgtatcct tcgtcgcat 180
caaggctgac acccctggtc attacagcga agaaggcgtt gatcttgtgg ttaaggatcc 240
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tcagaagaga ggcgtccatc gcttctgctt cacgaataaa tccccgtacc acgaaactat 360
agacttcgac gtgcatgttg gccatttttc atacttcgag cagcatgcca aagatgagca 420
ttttgcacca cttttcgagc 440

<210> 18546

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D1

<400> 18546

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ggggcggtca tcgaggccgg cagcaagttc cccggcttcg gcaccaccgg cgacgagcag 120

acgcgcaggc gggagctcgc cgccttcttc ggccagacgt cccacgaaac caccggtgga 180
 tgggcgactg ctccgaatgg accgtttgcc tggggatact gccgggtgac ggaacagcaa 240
 cagacggacc caccttacta tggactagga ccatacagc taactcatac agtacaacta 300
 caggctcggc ggaccagcac tgcacctgca cctgcctgac gaccctgacc tgggtggctag 360
 agaccccctg gtagccttca agacggccat ctggttctgg atgacgccgc 410

<210> 18547
 <211> 463
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-D10

<400> 18547

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 gtgcgcactg gcacgtaccg ccagctcttc caccctgagc agtcatcag tggcaaggag 120
 gatgccgcta acaatttcgc ccgtggccac tacacaattg gcaaggagat tgttgatctg 180
 tgccttgacc gtatccgcaa gcttgctgac aactgcaccg gcctccaggg ctctctggtc 240
 ttcaatgccg ttggtggtgg caccggctct ggccttggtt ctctctctct tgagcgctg 300
 tctgtggagt acggcaagaa atccaagctg ggcttcaact tgtacccatc tncccaagt 360
 tcaacctctg ttgtggagcc ttacaacagc gtcctctnca ctactcact cctggagcac 420
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<210> 18548
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D11

<400> 18548

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 ccaactgttc tatatgtctc taacatgatt catccaaata tatatacttt tggaagcatc 180
 ttcttagata tactacacaa ccagtggagt cctatatatg acgtcgctgc aattttaact 240

agtatccagt acctgctgag cgatccaaac ccaaactcct ctgcaaactc ataaacagca 300
cgactgttca tctagaacaa gcacgagtac aaccgcaa 338

<210> 18549
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D12

<400> 18549

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gggcgatgcc tctctccttc gagtcgcaca tgtgccgttt aacgggaatg gcagaaacta 120
ccgtgcggcc tttgagatgc tggaggacat tttgaactct gcacaccctc tccatcgtgc 180
tgtgcaagag gactcctaca agctcgtgtg catcgatgac tcggctgcca gggagattgg 240
ggagatggtg cacagtgagg ctttctggat agaggtggat gctgcgcatt cgctcgtgaa 300
gctgatatat gatatggtga atgagatgga agctgatcta cctattgtag ggcattgcct 360
gccgctattg ggaagaat 378

<210> 18550
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D2

<400> 18550

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agctgctctt gccataattg atgagatggt tgatgctggc ttcactcctt ccaaggatac 120
cctcaggaag gttcgaagac ggtgctctcg tgaatcagac ttcgacagtg acgagaaaagt 180
ccaatccctg gcaaagcagt tcaactaccg aatgggtggt gagaaccgta gagagatgct 240
ttatagcata gaatacaatc ctgtgtactg aaacagcagt tgctactgag tttgctagcc 300
attgggagag cacagacatt gtagcttgta aattacttgg atgtaccagg attcttaagc 360
aaattttcag tttctcgatc atcatttgtg ctgcgagggt tcgttttagg atttgctaata 420
aagatgacac ta 432

<210> 18551
 <211> 79
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D3

<400> 18551

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ctgactgagc cgccagctg 79

<210> 18552
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D4

<400> 18552

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ttacaatata cgatcacata actcatactc cctccactcc ttccacatct tccccaatca 120

taactcctac actctactct cctgcatcac actcatacat attaccatac actccaacaa 180

tcaccaaatt catcactact accccataac ccacttcgaa catctacata catcatcaac 240

aatataacaa acacctctta taacactacc acaattatac aatatctttg atacccattc 300

atataactaa aacattagat cagtactacc actcctacaa tacaaaagtt tatcacacac 360

tccat 365

<210> 18553
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D7

<400> 18553

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ctgggtctggg aatgctggct attttgccaa aacaccttgc cgacagagct tgcaaacttt 120

cacttctggg aacaatattg tcacagggt attctctata cagtacttat gggaaaccaa 180

gagcatggaa catgccagca attcaagctt ggttgcagtc tataacttgca acaaaggatt 240
 ttatccattt aatgttctct tctatgctct tcacatccca attgcacttg aagattgctg 300
 cactacctgt gttttgctgg gcgcttgacc at 332

<210> 18554
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-D8
 <400> 18554

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 ggcgggcgacg gcagcggcgc tccgggtgctg cttccccgga tcctccggtg tcggtagtgg 120
 cttcgtcaag cccaactcct ccaggcgagg ctggtgcgca gcggccgtgg cggcgcgcgtc 180
 gcgggagggcg gaaccggttt cgtcgtctggg gcaccgcacc cgcgtcgact tccccatcct 240
 tcaccaggaa tttgatgatg ccaaattagt ttacttcgac aatggtgcaa catcgcagaa 300
 accatgtagt gtgatgaaaa cattagatga gtactaccga tcgtacaatt cgaatgttca 360
 tcgtggtatc catgcactca gtgcgaaggc tactcatgca tat 403

<210> 18555
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-D9
 <400> 18555

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 ggagggaggg aacaacgtct cagctggatc tatttttttt tatgagatag tacagagtag 120
 acatgggcta gcggaacgca gcacgagaac gaatccacag gagggtaaaa aaaaccgccc 180
 ctgctccttt gagaggaggt cgggtccatca gaagagtgcg gaggcgatcg cggagaccac 240
 ggcgagcgcg acgcccgcgc tgaccccagc ccggaacttg acgccgctgc ccgcggcgct 300
 gtcgctcgca gggttgccgc cggctgacgg cgtgatcttg gaggcgttgg cgaagagggc 360

gtagtccgca gagcctggct tcaggttcag cagggtgatg canagcgaga

410

<210> 18556

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E1

<400> 18556

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gttgccaaaa caccttgccg gacacatctt gctaactttc acttctggca acaatattgt 120

catcactgca ttacttatgc agaccttatg gtaaaccaag agcatgcaac ataccatcaa 180

tctaagcttg ctatgcacct atacttgacac cagaccattt tatccattga atgctctcta 240

ctatgctcta tacatcccaa ttgcactcta acatcgctgc actacctgtg tttagct 297

<210> 18557

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E10

<400> 18557

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cggtcgccgc gagctccggc accccgcagc cggccggcac gccttcggtc cggcggacgg 120

cagcagcagc atgtcttcgg ccgccccgct gctaggcggc gaggccggcg gtggcgagcc 180

cgcgccgcgg acgccgtcgc cgtcgtcgtc gtgggtgggg cgcgtggtgg acgcggcgga 240

tgcgcgcgcg cagctggggg tcgcggtgcc gatggtgctg accagcatgg cctactacgg 300

catcccgtg gtgtcgggtga tgttctcggg ccagctcggc gacgtccacc tcgccggcgc 360

cacgctcg 368

<210> 18558

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E11

<400> 18558

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gggttatcac atccagatgg acgccaata cggtcagtac ccctcctttg tctgcggcat 120

ctactatccc actatcgacc acttacatat actctcactt aactcctacc atacagatca 180

tataccaag accctattca atcgggtcgac tcacatcatc ctctgcttca acatcatctt 240

ctagctcacc caggaggagt atct 264

<210> 18559

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E12

<400> 18559

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gagctccatg gtcagaccct gccaccacag cgtcggtggc tcggtgccac cgatgggact 120

cgggcgccaa ccagccatct gtgtatagct agctatatga ttagctccat gatgtacaat 180

attattaggt gtgtatgtat gtagccgat gggaatcaca gggaaatcgt acagaagggt 240

atttcgttt 249

<210> 18560

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E2

<400> 18560

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cgaagaatta cccaaccgtg agcgccgagt acagcgaggc cgtcgagaag gccaggcgca 120

agctccgcgc cctcatcgcc gagaagagct gcgcgcccct catgctccgc ctgcgtggc 180

actccgcggg gacgttcgac gtgtcgtcga ggaccggcgg tcccttcggt actatgaagt 240

gcccggcgga actggctcac ggcgccaacg cggggctgga catcgcggtg cggctgctcg 300

agcccatcaa ggaggagttc cccaccctct cctatgccga tttctaccag cttgccggag 360

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394

<210> 18561

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C7

<400> 18561

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ggtgcaataa tggccgctcg ctctctctcc tcccagccgc agctggctcg ggcgggcgcg 120

gtcctggcag cggcgctgct gctgctggcg gcggggggccg ggacggcgctc ggcgggcggtg 180

agctgcggcg aggtgacgtc gtcgggtggcg ccgtgcctcg ggtacgcgat gggcagcgcg 240

gcgtcgccct ccgcggcgtg ctgcagcggg gtgcgctcgc tcaacagccg cggtcgctcg 300

gcggcggacc ggcaggccac ctgcaactgc ctcaagagca tgaacggccg gtcggcgggc 360

ggcgtcagca tggccaacgc cgccaacatc cccggcaag 399

<210> 18562

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-B3

<400> 18562

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cgcgggggcg ggcacttcgg gtgggtccaac acgtacgtgt tcaccaaggc catgggggag 120

gccgtgctgg gccagcagct ccggggcggc gacgtccccg tggcgggtgat gcggcccagc 180

atcatcacca gcgtccggcg cgaccgcgtg cccgggtgga tgcagggcac ccgcaccatc 240

gacagcatca tcatcggcta cgccaagcag aacctgtcct gtttctcgc cgacctccgc 300

ctcgtcatgg acgtcatccc cggggacatg gtgggtcaacg ccatgatggc ggccgtgggtg 360

gcgcactcgg aggcgttcgc gccgccgctg ccgcangtgg tgggtga 407

<210> 18563

<211> 464

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-B4

<400> 18563

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 gggaaccaag attggaactg aacctgtggg atttcagcac agaacctgat gattgtgtcc 120
 ttgatttaac tctcagtctg aagccaagtt tttctggaac agaccttggg aagcatgttc 180
 cacgacgtac agaagaggaa attctcctgt acccgggatt tgagaatacc cctgtgaagt 240
 ccggtatgtc ccttgcgtaa atttgctgag tctttttttt tttttggatt gtttcgtcgc 300
 tcttgccac cacagctaaa tgtcaagcat ggtatcacat ttgctaacc tgaaaagggg 360
 gctaacaatt attgacatat tattgacgcc atgtcagggt tttggcctct ggtgccatct 420
 gatcgtncgg ttggtgatgt tcttgccata ccctcctggc agca 464

<210> 18564
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-B5

<400> 18564

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 aggagtgcc tgaggagtcg gaatcatcga gcgctgatgt gttcgaaggc aaccgactg 120
 aggtagcacc agctcttgag taggactagc aaggaggcac gggggagaaa acttgtctgt 180
 ctattcaagc tttagcacca gctcttcgcg ttgacagtat agatgtaaaa aggtttgggt 240
 aaaatctgat gctacgaaaa ttggctggta attattttgt actggatttc cccttagaat 300
 caaatataga tggatggcta gtgcctgggt gtgatgggat tcaactgtgt tattccaaaa 360
 aaaaaaaac gtgtggtgat ggtgggggtc aaaaaaana aananna 407

<210> 18565
 <211> 476
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B6

<400> 18565

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catcccgtac gcgacgggga gggccagcgc gctccccgcg tcgtgctgca gcggcgctcaa 240
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gagcctcgcc aacagcgta agagcgtaaa catgggcacc gtcgccacca tccccggcaa 360
gtgcggcgct tccgtcggat tccccatcag catgtccacc gactgcaaca agatcagcta 420
agttacgacg accaagctaa taagcctacc gaacgtacac gtacgccccg cgcgct 476

<210> 18566

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B7

<400> 18566

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tctgaagcca tggagcactt ggactcggct aaaagactgg gcagagacga gcttatcgcg 120
gaagactacg gcgaggcgga tatcgcatat gaattagctc ctgtgactgc tcagctcgct 180
tacgcgcacc agctacacgg acaatctcac gaagctatgc caacatatgc tcatatgata 240
aatggtcagt cagctgattt atcatcactc gctgtggcaa caacatatct gatttcaat 299

<210> 18567

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-B8

<400> 18567

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cgacgagtgc atctgctcca agaactgcgc ctgtgccggt aagtgcaccc ttgagtcggc 120
 tgatgctgtc cagacctgct ttgtcgactg cgtcctcaag aacgactgca tctgcagcag 180
 caagatcatc cccggcgctg acgacccaaa ggctaagtc aagtgaagta gtactatcat 240
 cccaaataat gtcctacgta tagtacctgc tgaataaacc tnccatgcac caacagggag 300
 agagtctgta cgtcttcttt gtaatcatga accgcttgta cgtgtaatat ataataaacc 360
 actcttcacc ttacacat 378

<210> 18568
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B9

<400> 18568

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 ctgtactgtt tgatgttctg gggtatttag gattgtgata gtttgatgcc ttgatctctt 180
 ctgaagggtt tcgtttcctt gaaggatgta gaaacaacac gcaacaacc ctttcatgta 240
 tgctatttac catttcttgc acagatgatc aataaagatg tttcgtcttc 290

<210> 18569
 <211> 482
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C1

<400> 18569

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 aaggctcttc taggcgaaaa cgggtggtcga agtgctggga aatgctcgcc ggagccaatc 180
 cctcgaggcg gaaccgtgct gcgatgccaa catggctcgc cgtcaactct accgacgacg 240
 aacaagtgac cgaggaccct ggtactcagc aggtggaaaa ctccgagcag gagctcattg 300
 aagggtgaaga gcaggtagcc caggaggacg actgctacga ggagtttgac gaggtctagg 360

agtcgtctcc cagttgactt aatggcgcca aggaaataat attagttcgg tttattgtta 420
tgatttatct ttataagaca ctttcacttt gtaaaaatgt ttgcgatatt tatctctaaa 480
aa 482

<210> 18570
<211> 449
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-021-Q1-K1-C10
<400> 18570

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caaggtactt ggaacagatg ggctgaatgt ctatttgaac aagtacagaa ttgagcttga 360
ccctcagctc gaagcccttg ttggaaggca tagcangaaa ccctggacaa agtttattaa 420
tgcagacaac caaaccttag tgtctcatg 449

<210> 18571
<211> 459
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-021-Q1-K1-C11
<400> 18571

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caaatatgga ttcacgcgt ctccgccggg aaacccccca tgggggtccc ctcaccatgc 180
gcccgcttcg ggcgccactc cgtgtgcgcc ttcacaatat cggctcctgt ttccagctgg 240
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gtggtgagcg actgcagcac gctgtcgct cgcactcct tctgtaatc cagcgctcatg 360

cttgcgagct cgtgcttctc caggatcgcg atcggagcac tctcaagaat ccaaccgatg 420
tacttgacgt tattcacgtg ctggttgaca tcaaggta 459

<210> 18572
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C12

<400> 18572

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ggagtttctg gtttctgggt tggatctctc ggagtcggag cgagcgagga tgggcggcgg 180
caacggtgaa accaccagc tgggggagcc actgctggcg aagaaggcga aggcgtaccg 240
ccctaggtgc cccggctgcc ggggtggaccg ccttaacgag gagcgggagg ggggtcttccc 300
tctcaaggac ctcttctca tctggctcgt caccatcacc tgcaccctgc cgatccagtc 360
tctgttcccc ttcttgatt tcatgataag ggatctgcat atggctaac aacacaaga 420
cattggattt tatgctgggt tttgt 445

<210> 18573
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C2

<400> 18573

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gcattgatgt cttccaccac aagctcaaca tcgtgtctcc tctcgcgcac ctatccatct 180
acttaccgta cacctactcg cacaatacac tgacctgcct tcacccggag attgaggagc 240
tctgttacac acaatccgct aacactgagc acaacttcat acttaacgac tggatcaacc 300
ccatcatatt ctacatggc 319

<210> 18574
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-C3

<400> 18574

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 ttcatacacia aacagaaaca agagactcat gcttaggtca cgagcaciaa ggataagcag 180
 tcagctgctt gcaagccgaa agcttatgcc atggcaaadc cctaaaaggg actgggtttcc 240
 tcctagcttc atctttggtg ccgncaccgc agcataccaa attgagggcg cctggaatga 300
 agatgggaag gggccaagca attgggatca cttctgccac aattatccg attggatact 360
 ggacggaagc aatggggaca ctggagccaa ttcctatcat atgtaccctg cggatgtcaa 420
 attgcttaag gaaatangca tg 442

<210> 18575
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C4

<400> 18575

caccaactac cccctcttcc gctacgttta ttacatacgt tccataactc ctctcctata 60
 cacacttadc cactatatta atatcttcta ccacaaccac aacatcttct atcctctctc 120
 atacctatcc atttactatc catcaactta ctacacaaat cctctaactc cctccaccc 180
 ctctattaat caactctcat ccacacaadc cactaacact catcacagat cactacacia 240
 ccactaaaac aaaca 255

<210> 18576
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C6

<400> 18576

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ggtcggaata gtcctggact tcaactggta cgaggctctt acaaactcac ctgatgacca 120

agcagcagcc caaagagcca gggacttcca cattggctgg tttgttgatc cattgataaa 180

cggacactat ccacagataa tgcaagatct cgtgaaggag aggctgcccc ggttcactcc 240

tgagcaggct aaactggatga agggctcggc agactacatc ggtatcaacg agtacacatt 300

cagctacatg aaggggcaga agctggcca gctggcgccc agtagctact ctgccgattg 360

gcaggttcaa tatgtttttg cacgcaatgg caaaccgatt ggaccacagg cgaattctaa 420

gtggctctac a 431

<210> 18577

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B2

<400> 18577

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cggacgattc gttcgggtgg agcggagacg agaggaaactg gggcataccg aaggccttct 120

tctgcggatg ggtaaaccctc tgctacacat ctgcggcgctc gatgatgacg cctttctgac 180

acagcatgac atgcaactga acaatgctat tctcgctgag gagaagcact tgcctatgta 240

tgactagttg gtttagcaaga gcaatgctga atatattgcc ggacgagcta cgcataactc 300

tatcagggat gcccaatgac atgcttgaaa ctctgatgc aacaagttac atgggatgca 360

tcggaaagga caagtctggc gatgaaatga gtattaacgc tcaacctgca cgagtcactg 420

ctcattccta cgaggatgag actgctctta ctggcacatg tgctgtatgt g 471

<210> 18578

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-A10

<400> 18578

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 agggccggca agggcgatgg cccggctatc ggcatcgatc tcggcacgac gtactcttgc 120
 gtcggcgtgt ggcagcacga ccgctcgag atcattgcc aacgaccagg taaccgcacc 180
 acgccctcgt acgtcgcctt caccgactcc gagcgcctca tcggagatgc ggccaagaac 240
 caggtcgcca tgaaccccat caacaccgtc tttgatgcc agcgtctcat cggcaggagg 300
 ttcagtgatg cgtctgtcca gagtgatata aagctgtggc ccttcaaggt catttctggg 360
 cctggtgaga agccaatgat tgttgctcag cacatgggtg aggagaagca gtttgcagct 420
 gaagagatct cctctatggg tcttatcaag atgcgtgag 459

<210> 18579
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-A11
 <400> 18579

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 ggcgttgctc ctttttctta ggtgggtcgt tagttcgaca tacccttcgg tctggttgct 120
 cacgatgtaa aatgtactca ctgaatagtt gcttatggat ggcctgataa agtaccttcc 180
 aatttcaagc gccggaaaag aagagtactg ataggctaca tgaagatcac taaacaccac 240
 tgtacgggtc aagctatctt gaaaaaggct tcttggtggg ctaaacgact aaagaaaata 300
 tacatgactg cgtgggtcatt caaacatcaa ctgatctata cagtaaccat gttttaagt 360
 agttgccatg ct 372

<210> 18580
 <211> 110
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-A12
 <400> 18580

caagagagag gcagagatcc gatccggacc gcgaagagac gatgactcac ccgaggccgg 60
 atcatgaacc gtgggtcgag gtgtcgctaa ctctggcgct gagcacggac 110

<210> 18581
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-A2

<400> 18581

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ctgacaggaa acaggcgagc ttgagagctg tagacattca gcaaagataa cgccacacaa 120
actgtacaag gcataatgac agtccctctt catggtcgga gaaatttggg gcaatgacta 180
caacctttac ctacctctca tctctagagt gccgattgaa aagatccgct cattcacacc 240
aagtgtcatt gccaaagttt cttcaacaat caccgtgaac atctatgtca tttcatatgt 300
tgctgctgct gctgatctga catattatat agatagtaat gtaactgatt ggtgtttgcc 360
ggaattgatt acgttaggag ccaagactct ggtagttcct gggaacctcc caactagggtg 420
tgccaaaata tatgttgata ttcaagagtg atgacagaga agattat 467

<210> 18582
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-A3

<400> 18582

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cattcctgcc ctcaccttct caggcatctg gggatacttg gaggtatttg ggctgatagg 120
attgggtggg ctcttgcatg gagttctttg ctttcttcta gaagccgtga taggagcatc 180
ctccaccatg atatccgtgc tcaagaagat tatgttagca agcttaccgg gcacaaatct 240
gaggactatg gcgcatcaca gtgtatgtct gcaattgctg gctcctatgg ctatattgct 300
ccaggaatgc atataccctt aagggtcaatg agaagagcat gtctacacct ttgggtgctg 360
gcttcttgag ctggtcaccg gaaagaagcc agtatgtgag ttttgggacg gcgtcaacat 420
tgtccatcgg gtcaagtcga tga 443

<210> 18583

<211> 486
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-A4

 <400> 18583

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 aagaatggat cagagagaga gccatactac atacatttcc aagatcatag gcctcttgct 120
 tttgcagcct tgtatgatgc atggacaaat tcagaaggag agatcaccca tacattcact 180
 attttgacta cacatgcctc aacttctcta aattggcttc atgatagaat gcctgttattc 240
 ttaggcagta aggactatgt tgatgcttgg ttaaattgatg tttctgtaaa acttgaagaa 300
 attactgcac cttacgaagg agctgatctg gtttgggtatc cagtgcacatc cgcattgggt 360
 aaagcatcat ttgatggacc tgagtgcac aaagaggtag atatcggagc tactgataag 420
 cctatttcaa aattcttcac caagaaatcg actgcctacg atctatcagg gaagtatgag 480
 aatatg 486

<210> 18584
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-A5

 <400> 18584

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 ccggcttccct cagttctccc gcccgctgct gccctccgct cgcgtccaga tcccgccacc 120
 aaccgatccg gcgccctcca gcatggcggg ggccaaggcg gcgggagccc tggctcttgc 180
 gctcgtgctc gcgctcgcg ggccaactc cgaggcgac gcgctctcgg cgctgcgccg 240
 gagcctcagg gaccocggcg gcgttctgca gagctgggac cccacgctcg tcaaccctg 300
 cacctgggtc cacgtcacct gcgaccgca caaccgctc acccgctag atcttggcaa 360
 tntgaaactg tctggtcac tggtgcctga gcttgnnac tggagcatct tcagtatctg 420
 gaactntata agaataccat tcagggacaa tcctctgag c 461

<210> 18585
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-A6

 <400> 18585

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 tgggtgttgt ccgtcgccga ggccttcttc ccctcgctcc ccagctccag caggcagatc 120
 agatccatcc aaccacgaac aggaaggaag gtaggaggcc tgaagggtg ggctgaagtt 180
 gaaccatgag tgccgtcgcg gtttcgtcgt cgctgaacct gaacgcgccg ctcttcatcc 240
 cggcggcgct gctgcaggtg gaggacttct cgccgcagtg gtgggacctc atcaccacca 300
 ccggctgggt ccgcgaccac tgggtcccgcg agcacgccca cctggatgag atagccgagc 360
 aggtcgagtt ggtcgccctc cttgcctacg atgaggatga gga 403

<210> 18586
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-A7

 <400> 18586

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 gccgatcatg ggcaatgctg aggatgtggt gaaaaggac aaatctggca agccgttgct 120
 cgacaggaat ggtggatatcc agattctaac ctgcataacc cttcaaccg tgccggttgc 180
 cattggaggc cctggctctc accccggagt gaaattccg aacgacattc aaatccctgg 240
 gctcgccaat gtagccgcaa ctgtgatgaa cctccatgga tttgaagccc ctgctgacta 300
 cgagcaaacc ctaattgaag tggctgacaa ctaaatactg gccagctatg tccaattttg 360
 gttctatagt tttgagaaag gatatggcca tgccattcaa taatttctgt ttgcaagcac 420
 ggtgctcaaa cttacaaaa ca 442

<210> 18587
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-A8

<400> 18587

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ttgggggtgc tcccaaaatt cttgatcgaa gaacaattcc agttcttggg acgactggga 120
cgacccaggc aagaaagatg agcctgcaaa accgcaccag agcagtgact cctgggctgg 180
ctgggatgat gggaaggatg atggttttga tagccctagt tacaacaatc acagcacctc 240
caacaagggg agcaacaaaa acgggacatc cggtggcaca ttttggacag aaggcggctt 300
ccgctgaaac cagtctcttt tccatagagc tatactttca gattgtttac atgccaggaa 360
acgtgaaggt ccagtgggtg gtattatttg ggatacttaa acagtcgggt gaaaggggtt 420
gtgtgggttg taccatgtct acaactggta ttatatctag tgagatatat ttctg 475

<210> 18588

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-A9

<400> 18588

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tggctaaacc tagaagtagt cccctgacaa gtgagagttc taaagtaagg cgatcagaga 120
tagcaacca agtcaccttt tacatgatcc cagccctgct tcttgctcc aagaacagca 180
taagtacctc ctttctgggc ggcgccgtgt tccatcaagt atacatgttc cacaaggaga 240
ttcttctgga ctacgtgcac catgatatca ccagaaagtg ggctttgatt tacttcaagc 300
tgcttttgct ggtgatggcg aaggacacca tcatgtactt caatctgttc taagctcacc 360
ttttcagttt ctcaaataac cagcaatgca tccgtctctg cactcgtaga ataagatga 420
tggatgaatt atgcagcctt cgttcttgta ttct 454

<210> 18589

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B1

<400> 18589

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gtagggctcc attaaccaag gtccacacc cgatctcgat cacacacccc gcatcccaac 120
acctacactg cacactcaca c 141

<210> 18590

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B10

<400> 18590

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gtttatggga gattatgttg accgtgggta ctactctgtc gaaactgtca cacttttggt 120
ggctttaaaa gttcgatata ctcagaggat caccattctc agaggaaacc atgaaagccg 180
gcagattact caagtgtatg ggttctatga cgaatgctta aggaagtatg gaaacgcaaa 240
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agaaatattt tgcttgcata gtggattatc gccatccatt gagaccctcg acaacatccg 360
caactttgac cgtgtccaag aagttcctca cgaaggcca atgtgtgatc ttctgtggtc 420
tgatccagat gatcgggtgtg gttgggggat ttctcctcgt ggtgctggtt atac 474

<210> 18591

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B11

<400> 18591

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agtagtaaat catcgacgga ggctagctcc tgctctgct gtgtgtaatt actgtatgtg 120
agtgaccgat cccatcgatg tgcgttcgtc ttgtggagac gctgcgtgat cgcgcgattg 180
gtttcgcttt cgccgccttg tttttgcacg aggaggttct gctagtgcgt acggggagaa 240
taaaagcagc attcctgctg tccaaggcct gtcct 275

<210> 18592
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-B12

 <400> 18592

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 gcatggccga cattccttac atgggcgtcg cttcgggaac agaactgnca tgctggatat 120
 gctccgtatg atctctactt gcagaaatac cccaggtgat ntctgcgttt gcgactgcat 180
 gaactgcgat acgagctttg ctatgtgccg gtatttacag aaacttagac ttgagttttg 240
 gcttttgagc ctttggtatg ttcttccggt ccagatagtg gtaccattag ttgaacgaaa 300
 tatttgaaa tgttggtcca cagtagatat cggatggaca ataggatata agtactggat 360
 agagacacaa gttgtcgta acatcngttc ttacttcgct attaatgttt ttgatgacgt 420
 cagacattaa tgtggatgga 440

<210> 18593
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-A1

 <400> 18593

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 cggctctcct cagttctccc gcccgctgct gccctcgcgc cgcgtccaga tcccgccacc 120
 aaccgatccg gcgcccctcca gcatggcgga ggcgaaggcg gcgggagccc tggctcttgc 180
 gctcgtgctc gcgctcgcgg gggccaactc cgagggcgac gcgctctcgg cgctgcgccg 240
 gagcctcagg gaccccgggc gcgttctgca gagctgggac cccacgctcg tcaaccctg 300
 cacctgggtc cacgtcacct gcgaccgca caaccgcgtt acccggtag atcttggcaa 360
 tttgaacttg tctggtcatc tgggtgcctga gcttgggaaa ctggagcatc ttcagtatc 419

<210> 18594

<211> 198
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-G4

 <400> 18594

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 ttttggtttt tttttttttt tttttttttt tttttttttt ttttaaaaaa ccctcaatca 120
 ccaaagcatt ccctaaaaac tccccactc cgccacatct acaccccacc catttaacct 180
 acacaaacta accaaaaa 198

<210> 18595
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-G5

 <400> 18595

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 actgtagatc actacgattc gaagataaac cagattactc ctatttgaag agactcttcc 120
 gtgacttatt tatccgcgag gggtagcaac tagattatgt atttgactgg accattatga 180
 aatatacctca gtttagagat aaacgcaaaa ttcagtctag cggcaagatg agtggggttg 240
 caggcccttc tgcagaaagg actgatagaa ctgcagctga agctttgttt agaaggactg 300
 gatctgggtc tggtcacaat cgagagcaca ccaagcacag aagtcttctg gagtcactga 360
 tgccatccaa agcttgatgat tcggataaag caaggccaca atcatcgctc cgcaacggga 420
 gcaca 425

<210> 18596
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-G6

 <400> 18596

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taatgctggc ccgaacacca atggcagcca gttctttatt tgcactgtca agacaccttg 120
gttgacgga aggcattgtc tgtttggcca ggtcctggaa gggatggatg tcgtaagtct 180
gatcgagtcg caggagaccg acagaggtga ccgcccgaag aagaaagtag tcatcagcga 240
gtgtggggag cttccagtgg tctaagtgtt actcatctgt tgtcgggtctt acctaacctc 300
ggatggatgg cgatatttcc cccacctgaa cttgtcgt 338

<210> 18597
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-G7

<400> 18597

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gtcccctcgg cttccttccc aggaagcgtt cctcccgta cgcggcaag gtgaagtcatt 120
tccctaggga tgaccccaag aagccttgcc atctcactgc cttccttggc tacaaggctg 180
gcatgactca cattgtccgt gaggttgaga agccaggatc caaactccat aagaaggaaa 240
cttgtgaggc tgttaccatc attgaaacct ctctcttgt cattgctggg ctctggcat 300
atgtgaagac tccccgtggc ctccgcacac tcaactctgt ttgggcccac catcttagcg 360
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agtatgctct caaatatgaa aatgatg 447

<210> 18598
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-G8

<400> 18598

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gtaaaaagaa ggcggtgctc ccggttctc cttcctgtg atctccttcc ctagtcttca 120
cccctatata cttgacatc tgactgccta acttacctac gtggctcacc ttactcacat 180
tgaaaaccac ggtgacactt ccctatccaa ac 212

<210> 18599
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-G9

 <400> 18599

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 aaataataag aaatcacaag ctgagagaga gaaggcaagg gcaacatcag acatatgctc 180
 ttggaattaa ggaggttttg gagattgaag aaggaaagca caatccaggt tctgttattc 240
 atactgttgg atggcctttg gatactaaaa catatggagg atcattcctg taccaccttg 300
 atgatagaca gttggcaatt ggtctgggtg ttgcgttgaa ttatcgaaat ccgtttctga 360
 gtccctatga tgaattccag aaatttaagc agcacctgc tgtagaaaa cttttggaag 420
 gtggaacagc tattcagtat ggtgcacgta ctctcaatg 459

<210> 18600
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-H10

 <400> 18600

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 gcacgagatc atgacggtga gccacactt caaggatgcc aacaacttgg ctcgccggtt 180
 caagctgaat gcatcccgtt gcgggctcaa taagaagagg aaccactacg tatagggcgg 240
 tgacgcctga taccgataga actacatcaa cgagctcatc aagaggatga actag 295

<210> 18601
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-H11

<400> 18601

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gggcgggctc gacgagatgg cgctccgga gctcattatc atccacattg acgaacgtgt 120

gcacgcaact atgacggcga ccagacagtg cactgaggcc aataactcgg tgcggccgctc 180

caacccgaat gtcctgtgat gggcgctgaa tacgaagcgg acccaatacg tatagggtctg 240

tgacgcatga aaccgatata cctacatcat cgagcgcgtg acgaggatga actaggcacg 300

gtcttggtac ctgtgagaaa gcgctctcagc gtcagcgtga tcattttttac tgtaatcagc 360

tgacaggtca tgatcgacat gcaa 384

<210> 18602

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-H12

<400> 18602

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tcacgactgg gattttgttt aggcttgtcc taaaaaggaa gttgtccaat atacaatgga 120

tggcaattgt tttattggct gttggtacaa ctacaagcca ggttaaagga tgtggagatt 180

caccatgtga ttctcttttc tcagcaccat tggagggtta cttgcttgga atactttctg 240

cttgtctttc agctctagct ggtgtgtaca cagaatattt gatgaagaag aataatgata 300

gtttgtactg gcaaaatgta caattatata cgtctggagt tatctctaac at 352

<210> 18603

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-H3

<400> 18603

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tcttgtgtcc gtgcaaattg gtgatacttg aacagggatc tcctccatat tagtgagcag 120

gatgtataat cctcccagtg ggcaggacat gtcctactac gatcatgtgc agaagcgcca 180

tgaggagaag ggctgcctat atgcatgcct gttcactgcg tgctgctgct tctgctgctt 240
 cgagacctgt gagtgtgcc tgcaggccat ctgctgctgc tgctagttct gcttggaggg 300
 catgggcgtc catcatcgtg gagatgtggc catgcgggac acccaccgcc gaataaaatg 360
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<210> 18604
 <211> 352
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-020-Q1-K1-H4

<400> 18604

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 gaggacctga tgggtgcggcg gnggcgcgtc ggcggcgtgg tcaccaactg ggcgctcgtg 120
 tccatgaacc acgacacgca gtcgtgcatg gacccaacg tgatggaggc caaggtggtg 180
 gtcagctcct gcggccacga cgggcccttc ggcgccaccg gcgtcaagag gctccaggac 240
 atcggcatga tcagcgccgt gcccgggatg aaggcgctcg acatgaacgc cggcgaggac 300
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<210> 18605
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-H5

<400> 18605

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 gatgtataat cctcccagtg ggcaggacat gtccactac gatcatgtgc agaagcgcca 180
 tgaggagaaa ggctgcctat atgcatgcct gttcactgca tgctgctgct tctgctgctt 240
 cgagacctgt gagtgtgcc tgcaggccat ctgctgctgc tgctagttct gcttgggaagg 300
 catgggcgta catcatcgtg gagatgtggc catgcgggac acccaccggc gaataaaatg 360

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gtgtg 425

<210> 18606
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-020-Q1-K1-H6

<400> 18606

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tgcggaatg gcggggcacgg tgacgggtccc ggggtcgtcg accccctcca cgccgtgct 180
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gcggtccttc ttacagccct accacctcat catcgtgcag gacggcgacc cgaccaagac 300
catcaagggtg cccgaggggt tcgactacga gctctacaac cgcaacgaca tcaaccgcat 360
cctcggggccc aaggccttct gcattctcatt caaggactcc gntcggcgct gcttcgggta 420
catggtctcc aagaagaagt acatctacac catcgacga 459

<210> 18607
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-H7

<400> 18607

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cgaatcagga acaacaaccc agatcgaaga cctctctgtt atacatttgc atatcacaca 180
tacttctctg cttccgacat acgtgaaggg cgtgtcgaac gactggaaac tatggactac 240
cttgacaact tagatgcata ggaaccgttt acagatcacg gcgatgctat tgcttttgaa 300
tcacaagttg acaaagttta ccttgctgca cccttcaaaa ttgctatcat tgatcatgac 360

aagaatagat catttctcgt gacaaaagaa tgacttcctg atgcttgtga tcggaac 417

<210> 18608

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-020-Q1-K1-H8

<400> 18608

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ggggaccccg tgccacagaa cgggcgcatc gtggcccggg tcgggttcgg gttgggcggc 120

aaggcgaagc ctgctccgaa gaaggtggcg aagacatcga cctnctctga ccggccgctg 180

tggttccccg gcgccgtggc gcccgactac ctggacggct agctggtcgg cgactacggg 240

ttcgaccgct tcgggtctccg gaagcccgtg gaggacctgc agttcgagtt ggac 294

<210> 18609

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-H9

<400> 18609

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gcctgcacct tcagcggcga ctagacggcg cccttcttcg gcttcttcgg cgccgccgcc 180

gcgctcgtat tctcctgcat gggcgccgcc tactggacgg ccaagagcgg cgtcggcgtc 240

gtctccatgg gcgtcatgcy ccccgagctc gtcatgaagt ccatcgtacc cgtcgtcatg 300

gcgggagtag tccgatcta cggactcatc atcgccgtca tcattcttcac gcggatcaac 360

cgcaatgcc aagcgtactt tctcttagac ggctacgcgc acctcttctc cggactc 417

<210> 18610

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-G3

<400> 18610

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ccatggagggc ggtggtcgtc gacgcgggct ctaagctgct caaggccggc atcgcgggcg 180
ccgaccaggc accccactg gtaatgccgt cgaagatgaa gctggatgtt gaggaccagg 240
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aggactggga cgccatggag gacctactca actacgtcct gtacagggac attgggtggg 360
agattgggga cgagggccag attctcttca ccgaaccctt cttcacgcca aagactcttc 420
gggagcaatt ggtgcagctt atgtttgaaa 450

<210> 18611

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E8

<400> 18611

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agcaccaggt tggttgtagg gcaggttcat gtattaaacc caaaggcacc aggcttgagc 180
gaggtattcg tgacctccag aagattgctg cagaatgcaa atcagggaaa gatccaagaa 240
catgagctaa tgaatcgctt catgagcata gttggacacc ttgttcagcg caggacacta 300
tagcttgcag agttatggcc taaaggttac atggatagtg ttggaatcaa agatgccatt 360
tatagatgaa gggagcgaag aatattatac tacagccagc aaaatgttcg cagcgaagag 420
agaatga 427

<210> 18612

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E9

<400> 18612

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 gatgtttcat ccaaatatat atgctgatgg aagcatctgt ttggatatcc tacagaacca 180
 gtggagtcct atatatgatg ttgctgcaat tttaacttct atccagtccc tgctgagtga 240
 tccaaaccca aactcccctg caaactcaga agcagcaaga ctgttcagcg agaacaagcg 300
 gtagtacaac cgcaaagtcc gtgagatcgt ggagcatagc tggacagccg actagtgcac 360
 aaggatgctc gtcgtgcccg atagggggcac aataagaaag cgtgaaaaaa aacacacgca 420
 ctcttt 426

<210> 18613
 <211> 55
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-F1
 <400> 18613

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<210> 18614
 <211> 301
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-F10
 <400> 18614

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 ggggcgctgt catacacgcc ccggggcgag atctgcttga tgggtcatac catgttctcc 120
 gagtactaca agcgccctac cctaactgaa gaagtgtttt gagatatctg gcttcataca 180
 ggtgatctcc gggagtggca atccaatggc acgatgaaga tcatggactg atagactaac 240
 atcttcaagc tgtcccaggg agagtatgtc gcaggtgacg tactggcatg agcatacctt 300
 c 301

<210> 18615
 <211> 460

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-F11

 <400> 18615

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 gtgttctggg tgtgttgga tgtccaaatc ttccattaaa atcaacatac aagaacaata 180
 gcagctcttt tggggatcga ataggttccc tcttttttgc tacaattggt tgtggagcgc 240
 aagttgagggc cttagaagga tctgagccac aaaagattag tgtttgctcc accaataatc 300
 cagttgacgc ctcatctttt gaatcctttg aagcatcaca ctccaagcgt gatttaacta 360
 gctccattgc agagaaactt ggtgtccgag ctctctctgt tagaatggat agccaagcaa 420
 aatatggtgc cctagcacgt ggtgatggtg ccatttttct 460

<210> 18616
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-F12

 <400> 18616

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 aggcatggtg accacctttt gggcacatgg aattcctgag ttggcgatga gtattgttgc 180
 attgtacatt ttaatatgtt actgtgatta ggctttactc gcggtggatg tctttcaccg 240
 ctagatggcc agaggcatat cctgccaaacc aagcagagca gccattttga ttttgggtcta 300
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<210> 18617
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-F3

 <400> 18617

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 tacgagctgc ccacccacgc caccggttgc tactacctgg gcatgttcct cagaggcgcc 180
 taccacgatg ccctcagccg gctgcacaac ctattcggac tgcccagcat ggtgcgcgtt 240
 tcccagtgcg actgacccca ctgcttttcc gtgacgctcg ccgacaaaat cccgtcctgc 300
 gccaacatgc tccaagcgat tcagtacgag cccttggtca tgtactacgt tctaaaacac 360
 tatacctact gaaa 374

<210> 18618
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-F4
 <400> 18618

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 agagacggaa gaaggtgggt tcaggagcaa gccagcctgc cgccgccatg aggcgcacct 180
 cgaagaaatc gtcgtcgtct acggcgaccg ccagcgctgg ccctactaaa gcagtttcca 240
 aggaagtaga acggattgat caatTTTTtct atacttacgc tgataactca tctggcatga 300
 ttgaccaga aggcattgaa acactctggt ctcaccttga agttccccac actgatgtta 360
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<210> 18619
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-020-Q1-K1-F5
 <400> 18619

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 ggccgtgctc ctggcgccga ccgtgggtggc tccccggcc gcggtgcgcg cggcgatgtc 180
 gtgttccacc gtgtacagca cgctgatgcc gtgcctgccg ttcgtccaga tgggcggggc 240
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 ccccgaccgc cgcaccatct gcggctgcct caagaacgtc gccaacggcg ccaacgggag 360
 cggcacctac atcagccgcg ccgncgcgct gccagcaag tgcggcgctc ccctgccgta 420
 caagatcagc accaacgtta act 443

<210> 18620
 <211> 269
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-F6

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 acggtcgatc gggccgtcag gagacgagga cactgcatc cgacttgatg ctcaactagt 180
 ggaaatagca gatgattacg gtgaccagct gttctggaca tacttgagct ttgtgcaagg 240
 tggatttgcc gcaagagaac ttcctctat 269

<210> 18621
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-F9

<400> 18621
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 gggactaca agcgccttag cctcactgaa gaagtgttct cagatggctg gttccatata 180
 ggtgatatcg gggagtggca atccaatggc acgatgaaga tcatcgacag aaagaagaac 240
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cagtcacccc ttgtggcatc ggtctgggtc tacgggaaca gcttcgagtc gttcctcggt 360
gccgtggctg tccctgagag gcaggctctc gaggaatggg cagcagccaa cagcaaggcc 420
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<210> 18622
<211> 402
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-020-Q1-K1-G1
<400> 18622

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gccaggaggg cctcgccgca ggttgggtgg gaggcagaga tgagccgggg gcggtcgccg 180
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agcctgtcgg tgttcaccac tgagcagatt ctccgcttta taagacgatg ccatatgaaa 360
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<210> 18623
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-020-Q1-K1-G10
<400> 18623

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aatttgcgaa actgatgagc catcatgtgg ttttctctac ctgtcgtgac atgggtctcta 240
cagaatcaga cattcctatt tacagtacat gtacttactg atcgactctg attcagatgc 300
ttgatatttt taacgctgac aaaatttacc aggtctcgtg aatccttcta agctcctggc 360
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<210> 18624
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-G12

<400> 18624

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tcattttctaa atcacatata ggcaagtcaa tctgattacc tagcaatgaa tttccaaaa 179

<210> 18625
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-G2

<400> 18625

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<210> 18626
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E7

<400> 18626

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agccgctgag ctgggtcacgg cgctgtctct cccctccact aagctgccgt tcctccgccg 240
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ggagcggtag cgcatcagcc cccgtgtcct acctcctggt ggacggcatc cctcacgagg 360
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ggatagggct 430

<210> 18627
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-020-Q1-K1-C6
<400> 18627

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cacatggctc aacaagagat ccagaacctg ataatgcttc aggaataaaa aaaagttatg 180
gctacaacct gaatataact gagaatcggc agttcacata caaagagctg gagaagttca 240
ctaataatth caagaagttc ataggacaag gaggttttgg gcccgctctac tatggccggt 300
tggaagatga cactgagggt gctgtcaaga tgcgttctga atcatcgta catgggcttg 360
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tgat 424

<210> 18628
<211> 456
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-020-Q1-K1-C7
<400> 18628

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gacctaaca gtggaacagc agccatgctt gagatcgcg cgaggctgtc caagctacaa 180
 gcgaaagggt ggaggcctag aagaacaata atcctatgca gttgggacgc agaagagttt 240
 gccctgatag ggtctactga atgggccgag gagaacatgg acactctagc ttcaagagct 300
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<210> 18629
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-C8
 <400> 18629

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 ggggccgccc ccatggccgg ttgctgcgtg ttctccggt ggccgtcggc ctggccgtcg 180
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 gtaacggccg tggccggaaa ggaccgccc cgttcgcgg tgaaccgcct ggcgctgaac 300
 tctaaccggt tccggttggt cttggacacg gcggcgcaca gggaggaccg cagggccggg 360
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<210> 18630
 <211> 126
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<210> 18631
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-D11

 <400> 18631

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 acgaccatct aacacgcatg atacaattat ctattcttat gcaagcaaca ggctgcataa 180
 cctacagaac cagtgcagct ctataaataa gaccgctgga ctttgaacac ttatccatgc 240
 actaccatat tcaccaaacc caaacctacc agcgaccacg accgctacaa gacagtcata 300
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<210> 18632
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-D12

 <400> 18632

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<210> 18633
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-D3

<400> 18633

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cctgactttg caggaggcag agaagcatct ctcagacatg gttaactcga aatctctagt 120
ggcaaagatc gacaggccga tgggagttgt cagcttccgg acgaccata acagcaatgg 180
cacactgaac tcatgggcca cgagccttga gaagcttctg gacctcgttg agaagagctg 240
ccacgagata cataaagaga ccatgatcca caaga 275

<210> 18634

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-D5

<400> 18634

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tttgcttgac tttgcaggag gcaggttaagc atctctcaga cgtgggtaac tcgaaatctc 120
tagtggcaaa gatcgacagg ccgatgggac ttgtcagctt acggacgacc caaaacagca 180
atggcacact gaactcatgg gccacgagcc ttgagaagct tctggacctc gttgagaaga 240
gctgccacga gatacataaa gagaccatga tccacaagac ggcgttaaaa gtttaactct 300
tttggcttag gttttgaaac ccgtgctggg catgaattac cgtaacagga aggttttttt 360
gttggttgata ggcacggcca gtttccccgc aaatttgctt tgactcgctg aatgtttttc 420
gg 422

<210> 18635

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-D6

<400> 18635

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ggtagctgaa cagcagaaga cgccgagcgg ggtggcggct ggtggcgggg cgctgctggc 120

ttgccgttcg gcggatcacc tgcgcaggtg gggtcgcgct ggcgccggct cctgacgcga 180
 cggaggggcg agcgctccct gtcgagctg 209

<210> 18636
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-D7
 <400> 18636

cgggctcttc tattactatt gggggcttac cctcaatctc tacccttgga tttgcgcttg 60
 ggctcgtctg gccgcagact agtatccgca ccagagagga gacacctacg actccgacct 120
 gctcttgcac atagattggg cagagagtga cagagcccc cccccctaaa gggtcgcca 180
 aaggaaatth ttttttaaat ccagctctta agcctaacgg tctttgatcc cggagagcag 240
 ccgccagccc aactaatcct tgctgctggc gcgccggggc tccgattgag ctccagatct 300
 gaggcacctg ctcggtggat tccaggaatc cgagcaccaa ctagacagga gagttctcag 360
 ggtaaaggaa gaggctgaga gcgcgttgga gatttgactg ataagagcga gcgagcgagc 420
 tgggtgcctt gctgccttg 439

<210> 18637
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-D8
 <400> 18637

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 aaactgaagt atattggtg gactgacatc agcttcttga aggaagacct atccacagca 120
 tgtgccgcgg tggtagtcct caatgtcgat actttagaag ttgtccatga agagttcaat 180
 gttgtccgac tgcaagtgcc atatattcct ggttttcttg cattcagaga ggctccagtt 240
 cttcttggac tcttggaata ggtgaagatc aatgcacctc atttctgccc tcagttgctc 300
 atggttgatg gaaatggatt gctccatccg cgaggttttg gtttagcttg tcattctcggc 360
 gttcttgcag acattcctac tgttggagtt ggaaaaaatc tacatcacgt agatggcctt 420

aaccaatc

428

<210> 18638
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-D9

<400> 18638

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ttagtagggt ttattttaca ttttaatttt ttattaacaa cttattatct ttatctattt 120
tctttcaaaa ataattcaca ctctatatct cctaacacaa ctcacacaa taccattcca 180
tactaccatt ttaacaccac tccttatact ccttaacaat atcagctcat gaatacaact 240
atatcatact ctcacactaa atactaaaat ctataacgcc gtctactcat tcaccc 296

<210> 18639
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E10

<400> 18639

ctggggcgcc gtcattttcg ggccggatga tacgctttgg aacggtggca cgtttaatct 60
gagttggcag ttacacaaag atgagccgca acaagccatc aactgttcta tttgtcccta 120
ggatgtttca tccaaatata tatgctgctg gctgcatctg tctggatata ctacagaacg 180
caatgtagtt ctatatatga tgctgctgca attgtaactt atatccagt cctgctaagc 240
gatccaaacc cactctccgc tgcagactca gaatcagcaa gagtgttcat cgataacatg 300
ctctagtata aaccgtaaag tccgtgaaat cttt 334

<210> 18640
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E11

<400> 18640

catattcctg ccgaatgatt ctctttgaaa ctctgtcacg ttcactcttg ctgggtttta 60
 tacacaatat gacccaact ctccatcacc tgcttacta gtcactacaa tgtactatcc 120
 acatatatat gtcatacat acatctatcc gcatatccta cacatccagt ggagtcctat 180
 atatgatgtt gctacacttc taacttctat ccacaccctg ctaagcgatc caaacccaaa 240
 ctccacttca aactcataat cagccagact gttcat 276

<210> 18641

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E2

<400> 18641

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 tcactatagt agccgacact aacatcaacc ttctacaacg tccaccctat ccaaactga 120
 ccacatccaa aacctcaaca tcaatactat cataactctac catgcagacc taaaactcac 180
 caatatcaaa actcaaccta tactaactta taacaatacc agatgattaa cttcttgatt 240
 aaactctcac actggatcac aacaattctc caacagacct acctcatcat tttatact 298

<210> 18642

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E3

<400> 18642

aatgagctcg gcatgctacc agcaaattaa caccatgctt acgatacctc agccgatgga 60
 cttaatactg tactaacatt ggaactgacc ctgcggcagt tcatctcaca accgcttgag 120
 cgactcctcg cttcaactgt gatgatcaat gacaatcata gtgcagcaga ccatcggaac 180
 catgatacac gacgtacagt acatgctaga agaca 215

<210> 18643

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C5

<400> 18643

ggtcgatatc ccagtagaca gatatccaac atacaatttt gttggccgca tgcttggggc 60
aagaggaaat tccttgaagc ggatggaggc aaatacggat tgccgcgtgc taataagagg 120
tcgtggcagc ataaaagatc cagcacggga ggaaatgatg cgagggaagc caggatatga 180
gcatatgaat gaacctctcc atatattggt tgaggcagag ctacctgttg acatcattga 240
tgctcggctg atgcaagccc gcgagatcct tcaagatctg ctaaagcctg tggatgaatc 300
ccaggacttc ttcaagaagc agcagctgcg ggagctcgcg atgcttaatg gcaccctgcg 360
tgaggaaggg atgcagaggt tcggttcagc gtaccctttc cacaacagcc ttggaatgaa 420
gagag 425

<210> 18644

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-020-Q1-K1-E4

<400> 18644

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tatggcaatt ggccaaggaa ggaaaagcca agaaaaaatt ccaatcttcg ggaagaccct 120
taccgggaag accattaccc ttgaagtgga aagcaacgac accgtcgaca acgttaaggg 180
ccaaattcaa gaccagggaa ggattcccc agattaaccg aggctggata tcgcttgcca 240
agcagctgga ggatggacgc acgctggctg actacaacat caaaaggag tcaactcttc 300
atttggtcct caggcttagg ggtggaacca tgatcaaggt caaaactctc actgggaaag 360
agatcgagat cgacattgaa ccactgact cgattgacag gatcaaggag cgtgttgaag 420
agaaag 426

<210> 18645

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B11

<400> 18645

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cagctctagg ctactgcgag tgctagcagt atggcttccg ctgcgcgctt actggtggcc 120
gtggtcgtgg tgtgcgcact cctggccagc aacaactgcc acgcggcacg ccgcttggcc 180
gacacggccg cggcttccgc tgctgctgcc gtcgtccctg gcctaccgc cgtgccgacc 240
ttgccaacgg tgcagtcagt gccacaggtg gcgctgccac ccatgccggc cgtgcccgcg 300
gtcaccgtgc cccagatgac gctgccgacc atgccagcgg ctccaagggt gaccgtgtcg 360
ctgccgcaa tgcccgccat cccgtccgtg ctgccaagc tgacgctgcc accgatgccc 420
gctgtcgttc catccgt 437

<210> 18646

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B12

<400> 18646

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taagggtatc atgttctctg aattcttcac acgttatggt cggcagtgtt tgattattgc 120
tcatgaagat cataaagcac acgtattgga ctttcggttg cgcaaatttg tttctgagaa 180
gcgaaaatta ttatctcgtg aagcttctgt cttcttacgt cctaattgtat cgttactact 240
tacaccttca tctaaaagca cttgccgttt ctgggacgct aaaaaattca gtttttatgg 300
agtcattgac aattctgctg gaggagatgt gctgggtatc gcttgtttga tgggggtctaa 360
aacaagttt gtgattggac aatattatgc attaacaata ttgcatcttg ataatgcatt 420
atatcaaaa 429

<210> 18647

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B2

<400> 18647

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accagaaatg ctaaagcatt tgcactctta tcttacgaag gcattgccaa aagaattaag 120
aggataacag ccctgactgc tggatgtgcc acccaagcta tgggaattggc gtcattctatc 180
gattctcata tcaataaaac atctcaattg gagggaaactt tgattgaaaa gaaa 234

<210> 18648

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B4

<400> 18648

taataatctt ctaatgcaca tccttgctga tttattaaac agacctgttc tcaagccaac 60
gaacatataa accacaggcc tgcaatctgc atatgctgct gggttggctc caagagtttg 120
caccatagtg aaaggtattg cagatttgaa caaggataac acgaccgtct taacgccgaa 180
actggatgaa agcgcacata gagaaagatt tgctaattca tactacaagc ttctgtacaa 240
gatcattcaa tatccatgaa ctttatctgt caatttatac tgtcaactct cctctatctg 300
gatatggaag ctgcaaataa ataaactggc cttcgctggg actaatctta actgcttgat 360
atztatatat aacatcacga tgtttataaa agtgagtaca tgaatatcct cagattttca 420
gcac 424

<210> 18649

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B5

<400> 18649

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caggtgacat agagaccaca ggcctcggag ctgcatatgc tgctgggttg gctgcaggag 120
tttggaccaa ggagaaggat tttgcaggtt tgcacaagga gaacacgaca gtcttccgtc 180
cgaaactgga tgaggcgcac aggaaaaaga gggcggattc atggtacaag gcggattcaa 240

gatcattcga tctggctgat ctttctctgt aaatttatcc tgccagcgct actctatctg 300
gttttgggaag ctgcaaata gaataatcggt cttcgctggg actaatctta actgcttggt 360
atgtatatat aacatcacga tgtttataaa agtggtagat gaatacctt agattttc 418

<210> 18650
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B6

<400> 18650

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tgccaaccgc gccgagccca acctcggtc tccatggaag ggcgcggtcc acgccgaccc 120
cgacctcggc tctccagga aggggtgcgt ccacgccgac cccgaccgg ccaccacgtg 180
gctctacatg gaaggcgtc agatccactc tctcgatcca accaccgagc gcgccccaac 240
ctagtcgtc catggaaggg cgtgactcac gcacgacca gaccgacta ccacatcaac 300
tgtccacggc gacatggata ggccacacc ggttagaaag tcctacacat caacgctgga 360
cctgctcatc tacacggagg gcgcatagca tgagtcgcaa cagccgaccg catcagacgc 420
cggaagctct ca 432

<210> 18651
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B8

<400> 18651

cgtcgaagca tgatgctgat gggaaagatt atagaagtga tttcagacaa aaacagagga 60
catactcagg tccagtcctg cagtctggc cgaataatag ttcgatgact gaaaggggcc 120
acattattga aagggatgca ggagttcaat ctgtatctga taaacaaaag aatggtacaa 180
gaagagccaa taatcttagt ggtcctttgt cacttccaac tcgtgcttct gcaaatagtc 240
tttcaagagc caataatctt agtggccctc tgtcacttcc aactcgtgct tctgcaaata 300
gtctttctgc tcctattcga tcttctgcag gttatgtagg ctctttgggt gataaaccta 360

agcgactat ggtggaaatt aaaggccgct tctcagtgac atctgagaat gtggaccttg 420
c 421

<210> 18652
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B9

<400> 18652

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ctcaggtggc acgggaattt gtgtttccct gcgtatgaca gcaccatgtt gttcctgaga 120
ttacctcctt tcagaactcc gaaagtcact tcaccgtacc ttccagtttc aagcgccgga 180
taagagagta ctgagaggcg acaagaagat cactatacac cactgtccgg tctaggctat 240
cttgagaaag gctgcttggt gggctaaatg acgaaagaaa atatccagga ctgggtggac 300
attcaaacat caactgatct atccagtatc caggttataa gtgtgttgta atgcttcaat 360
gcgtatcatt gtccaaaga 379

<210> 18653
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C1

<400> 18653

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ggcggctacc tcgactgaca taatgcctac ctttgggtat gcttcttctt ttctttaatc 120
tttcgcggtt ctatgtacta atggatcatc tgctaaattc acatgtgcac ctttctattg 180
gcacctatac ttttgtacca tttttctgga ttaatctact attaaaaatg ccaaaatata 240
taacgatcca aaaacgtgat aggttttttt cggtagctag ctttggttaat atgctggaac 300
caaatatttt taagaaac 318

<210> 18654
<211> 459
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C11

<400> 18654

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aagtcttttg ttagtgcaat ggagagcaga ggtagtggtt actatgagga gaagaagggtg 120
cttttgattt tcagagatgt ctgcaatgct gcctttgcta tgcattggaca atcaccgcca 180
attgcacata gggatctgaa agctgaaaat gttcttcttg gttgtgacgg tgtatggaaa 240
atatgtgatt ttggaagcac atcaactaat cacaaatgct ttaacaaacc agaagagatg 300
ggcattgagg aagatgtcat caggaagcat acaacccag cctacaggcc ccagagatg 360
tgggatctct acagaagaga agttattagc gaaaaagtg acatttgggc ttttgggtgc 420
cttctatatg gaatatgcta ctccaagtct gcatttgat 459

<210> 18655

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C12

<400> 18655

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tgctgctttg gcgcgtagc tagcaaaggc gatatccatg gcgaccctg cacggatcga 120
gctggacaag ctgagcgtgg agcagctcaa ggggtcaag gagcagacgg atctggaggt 180
caacctctc caggacagcc tcaccaagat ccgcaccgtc gtcacccgac tcgagaacgc 240
cttcgtcgcg ctccaggacc tatccctccg ccccaaggg aagaagatgc tcgtgccgct 300
cactgcgtcc ctctacgttc ccggttcact ggacgacgcg gagaagggtc tcgtcgatgt 360
cggcaccggt tacttcatcg agaaaaccat ggctcatggg aaagaatact gtgaaaggaa 420
aaattaatta ttgaagtcaa attttgatga 450

<210> 18656

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C2

<400> 18656

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gagcctgcag gacagttgat aaatgaaatt gataatgcaa ggTTTTatTT gtcaaattgag 120
gtaaatgaag gtggtcacag tcccataaat tctgatgatg agggatatata tgtgcatagg 180
tctctcgggg tagattatgt gaggtttgac gatgctacca tgagacaccc aattatggac 240
gttggaaacag tttttaccga tgtgaagcag ttcagatcgg cactaaagaa tttcatctca 300
ctactggaat gcttgctgtt ttggtggttt cagtaattag gccacaaggT gaacgcctgc 360
tatgttgaga tgaagtagga acgcctgctg ttttgctgtt ttgtttgcct aagctagctg 420
cttaaatca 429

<210> 18657

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-020-Q1-K1-C3

<400> 18657

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cagatatgtg atcataggca accatcgtga tgcttggaca tttggagcag ttgatcctaa 120
cagtggaaca gcagccatgc ttgagatcgc ggagaggctg tccaagctac aagcgaaagg 180
gtggaggcct agaagaacaa taatcctatg cagttgggac gcagaagagt ttgcctgat 240
agggcttact gaatgggccg aggagaacat ggacactcta gcttcaagag ctatagctta 300
cctgaacgtg gacatatcag tgtttggtcc tgggggtctt atgccccgtg cgaccctca 360
acttgatgaa ttgatcaaag aagcaagtaa aatggtacca gatcctgatg aaccatctca 420
naccttgtat gacaccatga tgcgccatc 449

<210> 18658

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C4

<400> 18658

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caacttatac tacccttagt cctcagcctg taatggctgg gaagttcagt cctgttggtt 120
atgttcaacc aggtcctcag gatgcaatgc atggaacaac cgttggtttt caaggatggc 180
cttgcccttt gttattgaat tcgtaccaag ctagcatgca gaaattccaa ggcaaccccc 240
cgggtgtattt agctcctcca gtcattggca ctgggaacct tccattgggtg gtaccaagcc 300
ctgcatcact tgtgcagccg ttcgaggcca ttcattccat aatggtcctt gctgcaagca 360
gcatgggtccc aggaaaatac atgtaaactt gtcgtaccaa tgacaatctc cttttgttgg 420
aagaaatcct gcg 433

<210> 18659

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B10

<400> 18659

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aggcgctcaa ggaccaggcc ggctgtgcc gctggaacta cgcgttccgg caggcggcgc 120
agcagcagca gcagcagcgc gccaggaggc cagcaggcgc gagcgggtca gtcggccccg 180
gcagcggcag cggcagcgcg cacgcgcgcg ctgcttctgc tccctcgggc tgcgccgcgg 240
cggcgaggag gagagccagg cagcagcagg aggaggagct ccggacggtc atgtacctca 300
gcaactgggg tcccaacaac tagctacgaa ctaccagtag ctggtgatcg agcaggcgaa 360
gcgaagctgg gcgggcaaca acctgagatg actccgaggg cccgtgtcaa gcaaccttgc 420
ctctagctag ctatgctagt aggcgct 447

<210> 18660

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H7

<400> 18660

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 tgtgggggtct ttgacaccat ggctaccgtg caaatgttct gggtcgtgat gttataaaac 120
 gtgacgaggt tgcgaacgac actggtagag gctgggtaca actactagat cgtgccccatg 180
 aacttcggca cgcacaagca caacatcacc ctgcatctag atctcgaccc ggatcgtaat 240
 gttccagata tgcattgatta tgactggggc ctttttgaat cactatcaat ttgaacggac 300
 gctgattgca taaacaagcc caagcttatt atggaacgaa acct 344

<210> 18661

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H8

<400> 18661

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 tccgtgcttc tctatacagc gactatcttg aagctgcaga cagcctggg tggactgcg 120
 gacctaaactt ctacaccaca gaagtcctcc gcaagtttgc caggtcacag ctcgactaca 180
 tccttggaac gaaccattg aagatgagct acgttggtggg ttccggaaac aagtaccgga 240
 agcgccctca tcacagaggc gcgtcgatac ctcaaacgg cgtcaagtat ggggtgcaaag 300
 gaggttacia gtggagggcc caaaaaaggc aaaccctaac atccttgctg gagcaatggt 360
 ggctggcccc gaca 374

<210> 18662

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H9

<400> 18662

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 gccgcccggc cgcgtacct ccgtcctct cttcgccct gccggcgctg aggccgaagc 120
 gaaggcgagc atgcatcacg accccaaccc cttcgacgag ggcagcgccg aggacaaccc 180
 cttctcaaat ggaggagccg gaggcggcaa gcagcagtag ggcttccggc cgactgagcc 240

cgtcgggttc ggcggcgcta gcaggggcga cgccgtcggt gacgtcccgc tcgagaccat 300
 gggggactct cggagcaagg tgaaggagct ctcgctcggtg gaatcagatc tgaagcggcg 360
 agaggcggat atcaagagga aggaagaggc gctgaagaat gctggcgtgc caatggagga 420
 gaagaact 428

<210> 18663
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A1

<400> 18663

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 aaactgggtca cattccctcc ttgaaggaag gaaactcaca ggagacgata tttaatccac 120
 cttggcggca tgagccagtc gcaatagggt caaggtttgg agaagcattt caagagccag 180
 cttcatttct tgccatacga cctctgtttg aggatgagag atacatggtg acatataacc 240
 caacaaagga taaagtatat gctttgctta aggaccaggc aaaatcagac gacattatca 300
 aaagctgttt ccatg 315

<210> 18664
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A10

<400> 18664

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 gtccttgagg aggttgtagc agaaagggtc cctaaattgg ccaaacatat ggaattcttg 120
 ggagttcaag tgggatggat aactggacca tggtttcttt caattttcat caatatgctt 180
 ccatgggaaa gtgtacttcg catttgggat gtcacctttt ttgaaggaaa tcgcataatg 240
 ttgttcagga cgacacttgc tttgctggat ttatatgggc ctgcactagt gaccacaaaa 300
 gatgccggag atgcaattac actactgcag tctcttgctg gatctacatt tgacagcagc 360
 cagcttgtat tgacagcttg tatgggcttt caatcagtta gagaaatggg attgcaagag 420

ttaaggaaaa agtacaggcc tgaaatttta act

453

<210> 18665

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-020-Q1-K1-A11

<400> 18665

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ctcttacaaa ctacagctgat gaccaagcag cagcccaaag agccagggac ttccacattg 120

gctggtttgt tgatccattg ataaacggac actatccaca gataatgcaa gatctcgtga 180

aggagaggct gcccagggtc actcctgagc aggctaaact ggtgaagggc tcggcagact 240

acatcggtat caacgagtac acatncagct acatgaaggg gcagaagctg gtccagctgg 300

cgcccagtag ctactctgcc gattggcagg ttcaatatgt ttttgcacgc aatggcaaac 360

cgattggacc acaggcgaat tctaagtggc tctacatcgc cccgacggng atgtacgggt 420

gcgtgaacta cctcaaggag aagtatggga atccaacgat ctacataacg gag 473

<210> 18666

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A12

<400> 18666

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ggtgatacca agcagcacgc gggagggctc atgactttca cattgcctgc gaagttcatc 120

cattgataaa cggacactat ccacagatca tgcatagatc tcaatgaatc gatcaggctc 180

gcctcagcat tcaactacct aacatgctaa actggagaat cgctccccta gactacatat 240

gctatcaacg agtacacatc catctacatg aatgatcaaa aactgtatca cctgactccc 300

aataactact ctggccattg acacgatcac tatactgctg tacacaattg catacccatt 360

ggaccacatg cgaattctaa gttgctcttc attgccccta caat 404

<210> 18667
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A2

<400> 18667

gctacgctaa agcaagtcta gtctctagag gaggaggcgg aggggggagggc catgggcagg 60
gacgacgtgg tccagagcgg cgcgggcggc ggcgagttcg ccgccaagga ctacacggac 120
ccgccgccgg cgccgctggt ggacgcggcg gagctgggtt cgtggtcgct gtaccgcgcg 180
gtgatcgcgg agttcatcgc gacgctgctg ttctgtacg tgacgggtggc gacgggtgatc 240
gggtacaagc accagacgga cgcgtctgcg tcggggggccg gggcggacgc ggcgtgcggc 300
ggcgtggggc tgctgggcat cgcgtggggc ttggcgcgca tgatcttcgt gctgggtctac 360
tgcaccgacg gcatctcggg gggccacatc aaccggccg tcaccttcgg cctcttctg 420
gcgcgcaagg t 431

<210> 18668
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A3

<400> 18668

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actccttcat caacgacatc ttcgagaagc tcgccgcgga ggccgccaag ctgcgccggc 120
acaacaagaa gccaccatc acctcccgcg agatccagac ctccgaccgc ctgcctctac 180
ccggcgagct cgccaagcac gccgtctcgg aggttaccaa ggccgtcacc aagctcacct 240
cgtcttagcc cccttgtagt aggcgtcggt gctgtctgct tctcaagcaa gcactgtgat 300
g 301

<210> 18669
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A4

<400> 18669

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gctggtcgcc ggggctgccg ggcgcggcgc gcagcagggc gtgtggagca tcacacccg 120
gcccattgtc cagagcatgc tgagccaccg cggcgacagc gggtgccagg gcgccttcta 180
cacctacgac gccttcattg aggcgcgcag caagttcccc ggcttcggca ccaccggcga 240
cgagcagacg cgcaggcggg agctcgccgc cttcttcggc cagacgtccc acgaaaccac 300
cggtggtatg gcgactgctc cggatggacc gtttgcttgg ggatactgcc gggatgaagg 360
acagaaacag acggaccacac cctactatgg acgaggaccc atacagctaa ctcataagta 420
caactacagg ctgc 434

<210> 18670

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-020-Q1-K1-A5

<400> 18670

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gcaggacaac atcgacaagc cgttcaatat catctgcagc ccaagttcga tgcaggagtt 120
cggcatgggg tgaagatggc tgctattttg taagtgaagt ggtggatgaa aattcaagtt 180
attgtagaag acaacacatt tctttgcata ttacatcctg ctatgatgtt ctgaactatg 240
atgggttcaa cgggtgccat ttttctctta gagctattgt tgacatggaa gaaatgggtg 300
cagcaccagc ttagtatgga caacaactga aatctcctac agaagttgtt tctaattgtc 360
tattgagctc cattgngttt tggcctaccg caatcttgt 399

<210> 18671

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A6

<400> 18671

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 agactcgaga gtcaacatgc ctaaaacgat gtatgatcat gagtgcgtta tatattatat 120
 attggctctg gttacctgta ctatttagtg catcatttgg tacttatttt aatagtccaa 180
 cggaacatag cgtcatactg tagccattct gaggatagtg cgatactatt agacacttag 240
 ctatcatagg ttaccagttc agctcatggg agcgacattt ggtgacgcat tacagttaag 300
 cttgctgcat aacgtacgca tgtcctatgt gatctcaact atacgatcaa ctcaccatat 360
 gtgaagacac accaacttat atccaa 386

<210> 18672
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-A8
 <400> 18672

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 aagatctgct tgcagatcct gatagcaaag agtggctatc catatcgact gaactatgtg 120
 gaggtacaca tatcacaac acaagagatg ctaaagcatt tgcactctta tctgaggagg 180
 gtattgcaaa aggagttacg aggataacag ccgtgactgc tggatgtgcc acccaggcta 240
 tggagttggc gtcactctatc gattctgata tcaataaagc atctcagttg gaaggagctt 300
 tgttggaata gaaaattgct tccatcaaga gtgggctgga tgcagctgct atccctgctg 360
 cgagaaaagc tgatttgaga ggcaagggtt caaagttaga ggacgaactt aggaagg 417

<210> 18673
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-020-Q1-K1-A9
 <400> 18673

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 ggccgagcga gagcgaggga gaggcattgg tgctccgaag ctgcgcgacgc tggcgctggc 120

cgtgctcctg gcggcgaccg tgggtggctcc cccggccgcg gtgcgcgcgg cgatgtcgtg 180
 ttccaccgtg tacagcacgc tgatgccgtg cctgccgttc gtccagatgg gcggggccat 240
 gccgccccag ccgtgctgcg gcggcatccg cagcctgctg cagcaggcca acaacacccc 300
 cgaccgcccgc accatctgcg gctgcctcaa gaacgtcgcc aacggcgcca acgggagcgg 360
 cacctacatc agccgcgccc ncgcgctgcc cagcaagtgc ggggtcgccc tgccgtacaa 420
 gatcagcacc aacgttaact gcaacacgat taattaaat 459

<210> 18674

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B1

<400> 18674

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 tggtaaagcag acggctgtag cttgaagcaa gcacgtttca tgaggctcta acatgaggaa 120
 ttctgcaacc aaaccttacc cgacaaacaa ggattagctt aaatgatcaa cccttgtagg 180
 gcttggttcgg ttacaacaat tcagaagcgg attggagggg attaaatcct tttctagtta 240
 aaaatgacta gaagaggatt taaacctcac caatcccctt atggattggg gtaaccgaat 300
 atgtccgtag ggggtagcac tgaagcagcc aggataccgt gtcgctggg gatcactgca 360
 accacataat cttctttggg cgtgtactct tttcaaaaag cttgtatctt tggaaatttc 420
 tttacggtcc tc 432

<210> 18675

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H6

<400> 18675

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 ggcgacgctc tgcgcgcgcca gccgctctcc cgcatcacgc cgctctacta catggcggtcc 120
 cttccggcga cggaggagag atccggaatc acctggacta agcagttgaa cgcgcccgtg 180

gaagagggtcg accccgagat tgctgacatc atcgagcacg agaaggcccg ccaatggaac 240
 ggtctggagc tcatcccgtc ggagaatttc acgtcgggtgt cagtgatgca ggcagtgggt 300
 tccgtcatga ccaacaagta cagcgagggg taccctggcg caagatacta cgggggaaat 360
 gagtttattg atatggcaga gtccttgtgt cagaaacgtg ctttggaggc 410

<210> 18676

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G11

<400> 18676

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 ggaccgtgta cgtgtcccca aaattcgata tgctgggatg cttcagtatg atggtgagtt 120
 gaagcttcca agtcgctacc ttgtttcccc accagagata gatagaacat ctggggagta 180
 cttggtgaag aatggcatcc gcacctttgc ttgcagtgag acagtgaaat ttggccatgt 240
 cacatTTTTtC tggaacggca accgctcggg atactttgat gaaactaagg aagagtatgt 300
 agaagttcct agtgacagtg gtattacatt caatgttgca cccaagatga aggcgcttca 360
 aattgctgag aaagctaggg acgctctcct aagtggaaaag cttgaccagg tacgtgtcaa 420
 cctgccaaat ggtg 434

<210> 18677

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G12

<400> 18677

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 acgaaggcac agggggccaga taatattgga ggaagcgaat aactacgata ttgggttcta 120
 gaccaaagaa gcaatggaaa aggaatcatc tgccacatac gagccaaaaa ggaacagtga 180
 aatatgggtt tttgagagtt caaatgagat ttcaacggat cttgctgagt atatctcaca 240
 agtttcacaa atttctgtca aagaaagggg atactttgcc atcgcttat atggagggtcc 300

cctagtcact ttttagggga aactttgcga agctacatac aacaatacac tggattggtc 360
 caaatggaac atcttctggt ctgatgaacg tgctgtggca taaaaccatg cagatagtaa 420
 ctatagggtt 429

<210> 18678
 <211> 140
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-G2
 <400> 18678

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 cagggtccac ggccttgtcc ttaagcggag gcccaatgcg ctgaattact gttcttcgta 120
 actagacgca gcatacgcac 140

<210> 18679
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-G3
 <400> 18679

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 tggctcttgag tccaatggag tccgctgcgg tggaaggata ctggtatccg accggggcaca 180
 tctgctgttt gatctgcacc aggctgtgga tggacttagg gaagcagagc ttgaaaattc 240
 atttataggg acaactaaga gaggcattgg tccttggttac tccagcaagg taactcgaaa 300
 tggactgcgg gtttgtgatt tacgacacat ggacactttt ggggataagc ttgacatctt 360
 attcaaagac gctgcttcga gatttcaagg ctttcagtac agcaaaaagct tgctcaagga 420
 agaagttgag agatacaaga agtttgctga tcgcttgagg 460

<210> 18680
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G4

<400> 18680

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catgaaggga cactgtgtgt tgttggcaag ggagcaggca tccatgttcc agggttcttt 120
ggagaaaattg atgggtcttga gtccaatgga gtccgctgcg gtggaaggat actggtatcc 180
gaccgggcac atctgctgtt tgatctgcac cacgctgtgg atggacttat ggaagcagag 240
cttgaaaatt catttatagg gacaactaag agaggcattg gtccttgta ctccagcaag 300
gtaactcgaa atggactgcg ggtttgtgat tcacgacaca tggacacttt tggggataag 360
cttgacatct tattcaaaga cgctgcttcg agatttcaag gctttcagta cagcacaagc 420
ttgctcaacg aagagggtga gagattcaag aagtttgctg atcgcttggg acc 473

<210> 18681

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G5

<400> 18681

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ggtaagcgtg gatgaagaat gcagctccca agagtcttac gtatggcgta gagtaacggg 120
gatgatttgg ccgactcaaa ttctcgactt tcagtgttc attaataacc tgtcgatact 180
gatgcatcaa cgtatattca tactgcttga acattttatt ctttatctag ctatgtgac 240
aactatgttt agtttttgtt tgactaccag tcattcttaa agcagttttt gtaggatttc 300
aaggatgatg ggacagcttc ttagctgtca cttgtaacat ttaatatcat gcttgcctta 360
caaaataatt tagaatc 377

<210> 18682

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G7

<400> 18682

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 caacgacatc tagtggaag ggggtgaggac tttcttgatt tgcagaaatc ttataagcaa 120
 gcagcaggat ctttttctga atggaggggc aagcttacta gggactttgg ttttgctatt 180
 gatttgataa gcatgttgat gtcatttggt cttactcga tgatcttttg gcttcgtggg 240
 atggcgtttc atctgggtga tgcagttctc ttatggaact tgcgtgctct tatagtttcc 300
 tttttgaaga ggattaaaac ttacatcaaa ttacggaagg cacttagttc actcgacgga 360
 gcacttccag atgctactta tgatgaaatt tgtgcatatg atgatgagtg tgccatctgc 420
 aggggaccga tgggtcgagc taaaaagttg tcc 453

<210> 18683
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-019-Q1-K1-G8
 <400> 18683

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 nacgtctgaa catgacaccg gcttttccac cctcaagcaa gctcttacgt cggctcctgt 120
 gttatcatta ccagattttg cttatccctt cacagtggaa acggacgcca gtgcagtcgg 180
 tattggagct gtattgatgc agcatgggca cccagttgca ttcctcagca aggctttggg 240
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 ccagcagtga cgttcctacc tncaacatgg cgaattcaca atcctnacgg accacaaaag 360
 gcctactgaa ctgaacgagc agcgctgca cagccctgg cacacataat ctttaccaaa 420
 cttttgggct t 431

<210> 18684
 <211> 282
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-G9
 <400> 18684

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tagctcagac tcataactct cactctctca aatacacttc tatccctcga gaagcctatc 120
aactacttta gcatcatgaa ccacgaatag atcccatttc gtgatgctaa cacttactac 180
gtcttaaagt cctacagttt attaactgac catgacaaag cttatggaca tctgaaagat 240
ctgcctaaaa taatcttatac tatctacaat tcttacattc ac 282

<210> 18685

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H1

<400> 18685

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gactggggcgg gctgcgcgcg tgcctacgc caggatccca ggctgcatct tccgtacgcc 120
aggagggcct agccgcaggt tgggtgggag gcagagatga gccgggggcc gtcgccggag 180
ccgctggatt tcttcatctg gactgtgcag gatgtatggt tatggctgga ggaaataaat 240
cttggaagct accgccaggc ttttgaagaa aatggtggcc atggagagta tctagaaagc 300
ctgtcgggtgt tcaccactga gcagattcta cgctttataa gacgatgcca tatgaaatgg 360
ggagatttta tcacctctg taaagagttg agacgcatca aagttgcctg cctgaaaggg 420
gag 423

<210> 18686

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H10

<400> 18686

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atgcccattg cgccgtgcta cctgcgctcc tctcttagac cctgccggcg tcgacgccga 120
atcgaatgcg atcatgcac acgaccccaa ccccttcgac gaaggcagcg cccatgacaa 180
ccccttctca aatggaggag ccggaggctg caagcatcag tacggcttcc ggccgactga 240
gcccgtcagg ttcggcggcg ctagcatggg cgacgccgtc aatgacgtcc cgctcgagac 300

catggcggac tctcggaaca aggtgaagga gctctcatcg tgagaatcag atctgaatca 360
gcaagaggcg gatatcacga ggaggg 386

<210> 18687
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H12

<400> 18687

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ctacaactct ctgcggggcc atgggcacct tcaagaagg ggccgtccta gcgcttccca 120
cggtcgccac cgaccacgac ctcacgtca atgccaaacta gatagcctca cgcgccgaca 180
ttccaccacg tcaactgtccc ccgactcaaa accctcgteg ccgacatcct cagtttcagt 240
tcattacgta tatccagtat tagctaccat ctcttcgcct gtacgatgac accgcttaat 300
tcctcttatt aaccagctc tcgtggagat tccccccga cgcatta 347

<210> 18688
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H3

<400> 18688

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cacggacatg tgattgatat ggggtgccacc aaccgtccaa acagtatcga tctgtctctt 120
aaaagggttcg gtacgattga tcgcgagaat gatattgggtg ttccatatga agttggccac 180
cttgacgttc ttccgattca cacgaacaac attaagctgg ctgaagatgt tgacttgaag 240
cttattgcta acgataccca tggttatgat ggtgctgac ttgctgcct ctgtactgaa 300
cctgctcttc aatgcattcg tgagaagatg gatattatag accttgtaga tgagaccata 360
gatgctgaga tactgaactc tatggctgtc tcaaatgac attttaagac tgcacttggg 420
acaagcaacc catctgctct 440

<210> 18689
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H4

<400> 18689

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actggtaatg aggaatgtgc gtaccacgaa atgattactc acctcccact ctgtgcaatt 120
ccatccccta aaaaggttgt gggtattgat ggtggatg gaggtgtact tctagagatt 180
tccagacaca gttcaatgga ctctattgac atatgtgtaa ttgatcagct ggatattgat 240
atctgcaagg aatacttccc acattaggct gatggatttg aagatgctcg tgggtcaactt 300
catgttggtg actctgtgga gttcttgata aatgcttctg aaggacata tgatgctatc 360
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gagaccat 428

<210> 18690
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H5

<400> 18690

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tgtgaccaca ttcgtgattg gggtcttgga acacctgagg gtacatttgt ttccatgggt 180
gtgtactctg atgggtcata cgggtgttct tctggactca tttattcatt cccagtaaca 240
tgcagtgggt gtgaatggaa aatcgttcaa ggctcccg ttgatgagtt ctcaaggaag 300
aagatggatg ccactgcca agagctgacg gaggagaaga cgcttgctta ctcatgcctc 360
gagtaaattc taccacacct agagagcaat tgccaccca atgttttgaa taaaaaaga 420
aactccaact cgattcata 439

<210> 18691
<211> 374

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-G10

 <400> 18691

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 cgactaggag gaggatgagg tggcatgcga gtgctgcggc ttcacggagg agtgcacggc 240
 gccgtacatc gagggcggtgc gcgctcggtt cggcggggcg tggatatgcg tgctgtgcgg 300
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 gctggaccgt cacg 374

<210> 18692
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E5

 <400> 18692

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 ttgagaggag aggaggaaga tgaggagtg catctccgtc cacatcgggc aggccggcat 180
 ccaagtccgc aacgcgtgct gggaacttta ctgcctcgag cacggcatcc agcctgatgg 240
 ccaagtgcct ggagataaga ccgcgggaca tcacgatgat gccttcagca ccttcttcag 300
 ccagactggt gctgggaagc acgttccccg tgcaatcttc gctgatctag aacccactgt 360
 gatcgatgag gtgcgcactg gcacgtaccg ccagctcttc caccctgagc agtcatcag 420
 tggcaaggag gatgccg 437

<210> 18693
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E6

<400> 18693

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tgtaggtgat cgtttgcttg ttgcaaagt tggagattct agagctgata tttctaaagg 180
agggcaggcg attgcggttt caagggatca caaacctgat cagacagatg agaggcaaag 240
aattgaggat gcacggggct ttgttatgtg ggctgggaca tggagagtgg gtggcgttct 300
cgctgtctct cgagcatttg gtgataaact cttgaagccg tatgttggtg ctgaccctga 360
aatcaaagag gaggtggtcg acagcttctc cgaattcctc atacttgcta gcgacggact 420
cttgatggtt gtcactaatg aggaaa 446

<210> 18694

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-E8

<400> 18694

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gcaagtagct gagttagctt ccaaactagc agttgaagaa gctgcatatc gtgatgttca 180
ggagagaaaa gttgagctgc atgatgcact gattaaaatg gtacaagggtg gaagtgttga 240
tggtttactt caggttcgag ctgatcgaat ccagtatcaa ttagaagaga tggaaaaagc 300
tcttagtgaa cggtgcaaac actttgaact taaattcaaa ccatctgcat cagttgagct 360
tccttccggt tgggaacctg ggccacaaga gggactcatt gagtgggatg aagactggga 420
taaatttgaa gatgaagggt ttagtat 447

<210> 18695

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-E9

<400> 18695

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aagaaaatga accgagcgaa ggccggattc ttgtatttgc agttgaagat ggaagcttgc 120
aattgatcgt ggagaaagaa accaaaggag cagttttattc gctgaatgca ttcaatggga 180
aattgttggc tgctatcaac cagaagattc aattgtataa gtggatgtca cgcgaggatg 240
gttcacatga gctgcagtct gagtgtggcc accatgggca cataacttgc ttgtatactc 300
aaacacgtgg tgacttcatt gtgggtggcg atctgatgaa atcaatatcc ttgctggtgt 360
ataagcatga ggaaagcgcg attgaagagc gtgctagga ttacaatgca aactggatga 420
ctgcagttga gatgcttgat ga 442

<210> 18696
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-019-Q1-K1-F1
<400> 18696

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ctccacctac tgctggcgct cctgtgaggc gacgccggac cggccacccc gcatgcgaac 180
agcgcacgga ccggccaccg gtgtgactcc tccatccaag gcttcagctc cagacggagc 240
cgccccgcca atcgccgtcc gccgaaccgc ctaggaattt ggtttcctca tctaaagtta 300
ctgcattata ttccatagaa atggctatgg gggtgattaa tgctaatact ataatacatg 360
agaaaaaaga aagacgcatt cgacaggcac cagagaccac agatgaaaat gcggcagagt 420
ccatagacca gctggaaata ttt 443

<210> 18697
<211> 223
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-019-Q1-K1-F10
<400> 18697

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tccagcattc tctcagggtc agggccaata tcacaattgg aaccaatgaa agacgcagca 120
 tcggaagtac tctctcagca atctctctcc ataatctctt cgctacatgc gctggccacg 180
 ctcgttcctt tcttggccta cattcacgct ttacctttgc tcc 223

<210> 18698
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F11

<400> 18698

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 tttgaagctg ttggagttaa ccctaaagtt ggtggaatag aggttgattc cttgttcaga 180
 actagtgtac ctggcatctt tgcaattgga gatgtagcag cgttccccct gaagatgtac 240
 aatagaattg ctcgagtgga acatgtggat catgctcgga agtccgcaca ccaactgtgta 300
 gagacgctcc taacattcca gacaaaagcg tatgactacc ttccatactt ctactcgagg 360
 gtttttgagt acgatggaag ttcgaggaaa gtctggtggc agttttatgg cgacaatg 418

<210> 18699
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F12

<400> 18699

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 tgagctcgca gctcgcgctg ccgtcgtcgt cctcccgcgg gccggccccg ctccgcgcgt 180
 ccaccgagga ggcggtggag gcgcctaagg ggttcgtggc cccgcagctg gacccagca 240
 cgccgtcccc gatcttcggc ggcagcacgg gcgggctgct ccgcaaggcg caggtggagg 300
 agttctacgt catcacgtgg acgtccccca aggagcaggt gttcgagatg cccaccggcg 360
 gcgccgccat catgcgggag ggccccaacc tcttgaagct ggcgcgcaag gagca 415

<210> 18700
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F2

<400> 18700

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tcagcgacgc tgggagggct tgaaatcgag tcgactgtct gcactcggca ctcacgcggt 120
ctccacctac tgctggcgct cctgtgaggc gacgccggac cggccacccc gcatgcgaac 180
agcgcacgga ccggacaccg gcgtgactcc tccatccaag gcttcagctc cagacggagc 240
cgccccgcca atcgctcgtgc gccgaaccgc ctaggaatct gttttcctca tctaaagtta 300
ctgcattata ttccatagaa atggctatgg gggtcggtta tgctaatact ataatacatg 360
agacataaga tcgacgcatt cgacaggcac cagagaccac atatgataat gcggcagagt 420
ccatagacca gctggaaata ttgatca 448

<210> 18701
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F3

<400> 18701

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tcaggggagc tgtgaagtct tgaaatcgag tcgaccgtcg gcactctgca ctcacgcggt 120
ctccacctac tgctggcgct cctgtgaggc gactccggac cggccacccc gcatgcgaac 180
agcgcacgga ccggccaccg gtgtgactcc tccatccaag gcttcagctc cagacggagc 240
cgccccgcca atcgccgtcc gccgaaccgc ctatgaatct gttttcctca tctaaagtta 300
ctgcattata ttccatagaa atggctatgg gggtgattaa tgctaatact ataatacatg 360
agaaaaaaga aagacgcatt cgacaggcac cagaaaccac agatgaaaat gcggcaaagt 420
ccatagacca gctggaaata 440

<210> 18702
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F4

<400> 18702

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catccatcta cttatcacgc ttctatcatg cgacgccgga ccgtacacca cacattcgaa   180
cagcgcacgg accggccacc ggtgtgactc ctccatccaa ggcttttagct ccatacggag   240
ccgccccgcc aattgccgtt cgtcgaaccg tctaggaatt tgttttcctc atctaaagtt   300
actgcattat attccataga aatggctatg gggttgatta atgctaatacc tataattcat   360
gataaaaaac aaagactcat tcgacaggca ccatatacca cagatgaaaa   410
  
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<210> 18703
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F6

<400> 18703

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tcatgaacac ttacacatgg gcctccagcg caactttcta cattcaggcc gtctacaata   120
cccaaaccac taatcagccc catctaaact cttagatcta actctaattc tcatacaatc   180
tagctacatc ctttcttcac aactactcta cctaacatca ttcccactaa acatgtacca   240
gcaaaccaca ttaagatcta caatataata cctaacttac aacatctgca ccatacctact   300
aattctcaac accaatgtgt agaaacccta ctatcatacc agacaaaacc ttatgactac   360
cttacatact tttaac   375
  
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<210> 18704
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F8

<400> 18704

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cggatgttga gtaccgctgc tgcgtcggcg gcctcgectg ggccacggac gaccactccc 120
tccacaacgc cttcagcacc tacggcgagg tcctcgagtc caagatcatc ctcgatcggg 180
agacgcagag gtcccgcggc ttcggcttcg tcaccttctc cacggaggat gcgatgcgga 240
acgccatcga gggcatgaac ggcaaggagc tggacggccg caacatcacc gtcaacgagg 300
cccagtcccg cggcggccgt ggaggcggcg gcggcggcgg taacggtggt ggccgtggag 360
ccggcgggta cggcggt 377

<210> 18705

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F9

<400> 18705

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gaggcgggtgg cctcgggcgc cgcggcggcg atgggtctct cgctgcaggc gctggccacg 180
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gcggaggcgc tgggccccac gcacctctc cacaccgct acgccaccaa ggaggacctg 300
gcgtcctacg cggcgacccc ggcgcacgtg gccgcggtgc aagggcacgt tctccccaac 360
gcgtcgcaca tcaccgccgt cgactgggtc aacgcgcgc cgctcccgtc ccccgcggcc 420
cccggcagcg ccgtgcgcct cacgctggc 449

<210> 18706

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-E4

<400> 18706

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 ttgtaggtga tcgtttgctt gttgcaaagc ttggagattc tagagctgtt atttctaaag 180
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 gaattgagga tgcagggggc tttgttatgt gggctgggac atggagagtg ggtggcggtc 300
 tcgctgtctc tcgagcattt ggtgataaac tcttgaagcc gtatgttggt gctgaccctg 360
 aaatcaagga agaggtgggc gacagctccc tcgaattcct catccttgct agcgacggac 420
 tctgggatgt tgtcactaat gaggaagctg ttgcc 455

<210> 18707
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-019-Q1-K1-C8

 <400> 18707

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 gcagctgcag gtactacat catcgctcgc gtcgctcgcg ccaggatgac cgctcgtcgac 180
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 gggcagaccg tgtgcgtcac cggcgcggcc gggtagatcg cctcgtgggt ggtgaagctg 300
 ctgctcgaga agggatacac tgtgaagggc accgtgagga acccagatga cccgaagaac 360
 gcgcacctca aggcgctgga cggcgccgnc gagcgggtga tcctctgcaa ggccgatctg 420
 ctggactacg acgccatct 439

<210> 18708
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-C9

 <400> 18708

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 accgagttca aaaagatggt tgacctcatc aaacaatata acctgaacgg gcacattcgc 180
 tggatctccg accagatcaa tcccgtccgc tactgcaagc tgtaccgcta catctgcgac 240
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<210> 18709

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D1

<400> 18709

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 gggcaattgc agaggcatta agaaatgagg acaggatcca tattattgat ttccagattg 180
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 ttacccctct gcccggtatt tatgcaactc aagttacaaa agaaatgctg gacattaggt 420
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<210> 18710

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D10

<400> 18710

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 ccgagaagcc gggctcagcg tgcgtacagg gacagagacg gcaagccgga gtgtggatcc 180
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gcggcagcgg cggtctccag cagcgcttcg tcatcccat cggtacctg taccaccgc 360
agttccggcg cctgctggat gccgcgcgcg acg 393

<210> 18711
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D11

<400> 18711

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actaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gagggggccc ctttaaaagc accaatttta 240
actacccttt gcaacaaact gaaaaacttt ttaaaaggcg acccaaattt aaattaatgg 300
aacttgttta aaaaacggat aaattggaaa accctggtat taaccaactt tatcaccttt 360
aaaaaaaaaa cccttttgaa aatatgggta atatacaaaa agacacaacc aattgatctt 420
t 421

<210> 18712
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D2

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cgcccaacgc ggcaactgcc caccgtccgg ctgcgctag ccgtacgtgg cgaccggtgg 240
agctggagtg cgcggataag ggatctcacg gtatttgcca ctttcacgga agcggatcgt 300
gaaagggatg aagaggatgt cgccgacgat tactattccg ttctgggtgt gatgccagat 360
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452

<210> 18713

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D4

<400> 18713

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ataatatggg gtggcacagc aaaccgtggg aggctaaagc ttaggtgtga ccatggccct 180

gaaaattgga ccagtggagt tgatcttggc cgccttctgg atcgtcttga acttgacctt 240

atcataacca atgaatcact caaagatgcc gtgcagcagc aaaggctcgc gttggtggct 300

gcagctaact ctgctgttgg ggagtcgtcg acagcagctg ttcttgcccc agaagaaaag 360

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gcctctacg 429

<210> 18714

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D7

<400> 18714

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gcggagggcgg aggaggaggc ggcgggcggt acggctcccg cggcggtggc ggatctggcg 180

gcggcggtcg cagctactgt ggtagctggg gcggcgggcg gagatccggc ggcggtggcg 240

gtcccggcgc gtgctacaag tgcggcgagc ccggccacat ggcaaggagc tgccctagcg 300

ccgacggcgg aggcgggtat ggcggtatgc gctacggtgg cggcggttac ggaggacgag 360

gaggagggcgg tggctgcttc aagtgcggcg agcctggcca catggccagg gactgctcca 420

gcggc 425

8111

<210> 18715
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-D9

 <400> 18715

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<210> 18716
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E1

 <400> 18716

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 gccgtgtgcc ggccgaccag cccagaggcg tcgaggccgc ggctattgac agttaggtcc 120
 gggtcggagc cagccgtcga ggccccgatg gcagcaggac gacgctgccc ctattaataa 180
 agccgccatg cgtgtgcccc gcaactgcaca acatccatcg tccatcgacc cacccaacct 240
 gctgctccgg cccgcgcttc gcctgggtac cggcgccgc cgcgccccgt accgtctcgt 300
 ccaggaacag gaagagcagt aacccatgca cccattcatc ggggatcacc aggggtcagg 360
 ggagcaagat gtcgactgcc accgtcccaa gattgcccgc tcccagatcc ggggcaagct 420
 atcactatca gacga 435

<210> 18717

<211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E11

 <400> 18717

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 aggcctacaa tacatcgacc taggccaaga acacaaatga ggagtgccaa cgctcgtcca 120
 tggctatgta gacgaacaaa ggcgaccgct tcacgtgta caccaacgac gagcgaaccg 180
 acgccgcgct tgtctaccag ggacagcctc caccagctaa ggatacatcg agctcg 236

<210> 18718
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E12

 <400> 18718

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 gctgtgctga acagcgggaa gacgccgcag gcggtggtgg ccgtgctggt ggcggcgggcg 120
 ctgctggctt cgtccgcttc ggcggcgatc acctgcgggc aggtggggtc gtcgctggcg 180
 ccgtgcatcc cgtacgcgac ggggagggcc agcgcgctcc ccgcgtcgtg ctgcagcggc 240
 gtcaagagcc tcaacagcgc ggcgcggacc agcgcggacc gccaggcggc gtgccgctgc 300
 ctcaagagcc tcgccaacag cgtcaagagc gtcaacatgg gcaccgtcgc caccatcccc 360
 ggcaagtgcg gcgtctccgt cggattcccc atcagcatgt ccaccgactg caacaagatc 420
 agctaagtta cgacgaccaa 440

<210> 18719
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E2

 <400> 18719

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gccgtgtgcc ggtcgacccat gccagaggcg tcgaggccgc ggctattgac agttatgtcg 120
tgatctgagc catccgtcta ggcccgattg gcagcaggac tacgcttccc ctatttataa 180
agccgccatg cgtgtgcccc gcaactgtaca acatgcatcg tgcategacc cacccaacct 240
cactctccgg ccctcgctta acatgggtac cggcgctctc cgcgcctgt accgtgtcgt 300
ccaggaacat gaagagcact aacccatcca cccattcatc taagatcacc aacggtcaag 360
ggatcaagat gtcaactgtc 380

<210> 18720
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-E3

<400> 18720

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gccgatctac cttgacgcgc aggetcggtc tcttctaaa gcgtcgcgct cggttgtttg 120
acaggagagg aggaagatta gggagtgcac ctacgtccac atcgttcatg ccggcatcca 180
agtcggcaac gcgtgctggg aactttactg cctcgagcac ggcattccagc ctgatggcca 240
agtgcttga gataagaccg ccggacatca cgatgatgcc ttcagcacct tcttcagcca 300
gactggtgct ggaaagcacg ttcctcgtgc aatcttcgtt gatctataac ccaactgtgat 360
cgatgacgtg cgcaactgtca cgtac 385

<210> 18721
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C7

<400> 18721

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acgctggccc ggatggaatc cttgcccgat cccaagcagg tcctgttcga cgccctgcgc 120
acggccagcg agctgtctgc caaccggctt cgcaagttca accccgaaga gaagcggcat 180
cgtgtctccg acctgatgga cagcctggac cggctacgcc agattccctc gttcgcgcac 240

ctggaagacc agatccgcg ccatttcgcc gcctgaattt ccccatgctg caattcgacc 300
tcctcgccac cgaaggccat gcccgcc 327

<210> 18722
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B3

<400> 18722

cgccgggaac gtgaagaaag acgcaagaga ctaaagagag agcagcagga tgatgggtca 60
aggctacatt cgcagcagat tagggttgat tatgctctc aacccaaaag gcatagtcgc 120
atcaaagagg cacctcaggg ctgggttgac tgtcctgcat ttggggagcc aatagataaa 180
atcataccat ctaaagttcc tctcgatgaa acattcaatg agtcagtgcc tcctgggaag 240
cgatactcct caaagcaact agttaacaaa caaagaaaag ctggtcgtga aataggtctg 300
gtgattgatt tgacaaatac caccaggtat tattcaccag ctgaatggac gaagcaaggt 360
actaagtatg cgaagattgc atgcaagggg agagatgcgg tacctgacaa tgaatctggt 420
aataagtttg tctatgaggc aatg 444

<210> 18723
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B5

<400> 18723

agcaggtggt aggatctacc taattggtgg ttatggaaca ccacatggga agagtaatgt 60
atggggcggt aatcatcatg actttttgtt tggttttggt atggagcatg tagagccatg 120
agtaaataca gaggatctct tatgggtact aaagagaaca gatatggtct ctgctgggca 180
taaaaagata gggaagtaaa ctcacgtttg gaagaatcgt gagcaggagg agaagtgtct 240
tttatcccc attgcataac acctgttttg cccttttgac tagcatacat gggaatgagg 300
acacttaagc tttgtgatga ggtgaggtga gaaatgggag ttgagagaca gacttgagag 360
ggagagatgc aaagagcaga acaaaatggg cagcaatatt ggctatggaa ctgaagcacg 420

<210> 18724

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B6

<400> 18724

catacattcc tgcacgcgaa gccttcgcgc gtggtcacga tctccctaga acactagagc 60

gtcggagggt ccttgtggtg agtgtccaac gcctatagtc taacgaagta ctgaatcctg 120

cttgccaaga tgcctaataag cgttggctac tgccctctgc tgaatgacac tgatcatggc 180

ctaaccatat gcctgctagg cttcacctcg aacagagtca aagagtgtca gtcattgggaa 240

cgcgtgccac tggaactacg ttcattggtga accaataccg atatcatgaa cttactagga 300

cgcacatgca cctgccgaat atagtgtcca tatgtgcgtt tgaaaggcca ggcgcttgat 360

ctgatacgct ttt 373

<210> 18725

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-019-Q1-K1-B7

<400> 18725

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atggaatcgg ctaacaaagc ggggctcagg aagcagttca tgaggatatg ggagaggctg 120

cacgtcacgg agctcggggg ggcagccttc ctcttctcct gcggctggta cgatcttgcg 180

tacgggaggg accatttctt catctacctc ttcttccagt ctgtcgcgtt tttcatcgtc 240

ggcgtcggct acgtcggcac catcgtcccg cagtcgtagc ggaagcgtgt ccagatcatc 300

cgcttctctc tggttttcgc attgtgtctt gggtaagttt cgtagtggat gaccggtttg 360

aggtaaagat catgcatgcg gtcctctctt ccacgtctn tttttgggga ccggccgtgt 420

gtgcttcgtc gacct 435

<210> 18726
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-B8

 <400> 18726

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 atcgggtgctt ctttgccatg gcgagcagcg ctagccaggc tagccttctg ctccagaatc 120
 agctcaagga tcttgcaag aaccccgtgg atgggttctt cgccgtgctt gtatacgaca 180
 gcaacatctt cgagtggcag gtcacatca tcgtaccgcc tgacacccta tatgatggag 240
 gctacttcaa tgcaataatg acctttcccc agaactatcc caacagcccg tcatcagtaa 300
 gatatactcc tgagatgtgg catacgaatg cgtatcctga tggacgtgtt tgcatttcta 360
 ttcttcatcc acctggagaa gatcccaatg gccatgagct tgcattgcga cgatggacac 420
 t 421

<210> 18727
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-B9

 <400> 18727

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 aaagcaaggc tgctccagca acgaagagct catgctgcac caacattcac catcaagcgg 120
 ttggcagcag aggcagcatg gatgcctgct ataggcaatg tttctactgt gctgtgtttt 180
 ggcatctgcc tggtttctaaa tctaactc actggtggct cgaaccgtgc tattttcttc 240
 ctggcgccaa tccttctgct tctgaaccag gattcagata tcttcgcagg gtttggatgat 300
 aggcagcgct atttcccagt aacagtttct atttctggct atttattgtt gacagcggtg 360
 tataagatat gggaagagac ttggcctggc aatggaagat gggctcttga tatcggggg 419

<210> 18728
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C1

<400> 18728

tcggcgacca gttgggcgcg gtgttccttc aatcggtatg gctctgccag gatttgtgtc 60
tcaacaacaa cttggtctca ataataattc tgagatgacc tggctaccaa tattgactgg 120
tgcctctgga gctctaggag caccttatgg ttccccttat atagccatgg atggaagtta 180
ttactctcga caatctgaac aagcatcttc atcagtttct attagagaac ctagtgc aaa 240
taatgcttct tctctgttga agtcccaaga aataacagag gttgcaagt atgaaataac 300
tcaacgcaa aataagctc gtcgatactc ggagatgaac tttggccaat gaacatagct 360
gtgaccaatg aggattcatt ggagcttagg acccaagtaa gacctgtgca agagaccaa 420
gccttactaa gtccttgcaa ca 442

<210> 18729

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-019-Q1-K1-C10

<400> 18729

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gcgtctgcta ttacagatc actgctgttg atcctgtaat ggaggatgag gacttgggta 120
gcaggaggga aaggatTTTT tctttattta ctggtactgt acgtgcacgt gtttttgacc 180
gttttctttt cgatacacca ttcacaaaaa atggaaaaac acaagggtgt ctagaagacc 240
agtggaagag gcgtaccgtg ctccagacag agggttcctt tctgctttg gtgaaccgtc 300
tgctagtcac caaatctgaa tctctggagt tctctcctgt tgagaatgcg attggaatga 360
tcgaaacang aacagctgca ttgagaaatg aactagaaga accacggagt tctgaaagt 420
atcaac 426

<210> 18730

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C11

<400> 18730

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agcaggtcgg cgctctgccc ccagctcatt gatcctgtcc tcgctataag gtagtcctgc 120
ggcggcctcc gaatttcact cgatcgaaca cgacatgaag cggccacgcg gcgccagtcc 180
ccctctggct gcgatgacca atccgaacga tgatggttac ggctggtcgg ggatggaggc 240
ggacgcagac gcggacgcgg acgaggagat gatggcgtgc ggcgccggcg gggagaagaa 300
gcggcgccctg agctccgagc aggtgcgcgc gctggagcgg agcttcgagg tggagaacaa 360
gctggagccg gagcgcaagg cgcggctggc gcgcgaacct cgctgcatc cgctccaggt 420
cgccgtctgg ttcc 434

<210> 18731

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C12

<400> 18731

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tctgtggcgt cctgatgggtg gtcaccgtca caaacacggc ggagggccag gtggcgtcgg 120
tcgtcgtggg cctggcgagg tgccgccgaca gcacgaggaa gaacatgaag gctgaggccg 180
gtttcaaggg tcttcagggtg gcgatcaagt gcaagaacag caacggcgag tacgagacaa 240
aggccgtgag tgagatccaa agctccggag ccttcagcgt cccactcgcc gccgacctcc 300
acggcgccga ctgccacgcg cagctccaca gcgccgtcaa taacgcgcct tgcctggggc 360
aggagccgtc caagatcgcg cccatgtcaa gcggcacctt cgtcgccgtc cctggcaaga 420
tgact 426

<210> 18732

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C2

<400> 18732

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aggggagctc cagaaatctc gatgccagcc ctctgcaac tccgggttct cagagcgtga 120

cagagcttga tccaaagctc cctcaaactc cacgtcccaa cctgaaggag ctaggcgaga 180

agcggacgtc gataaagatc gtagtggacg aagaagcaag cccggcagac aaggtgggag 240

gtgcgagaaa ctcaggagaa gatgtggcga aggtgataga gaaaaatgca ggtgaaccgg 300

gcaggtcact gacaagcaca ttgagcagga agatttgcag aaggagagca gatgataggc 360

tatcagatat ccccgagaag attgaagctc gtggatctaa gccggtgagt gaagggccta 420

ttcttgtagg aggtgagcca atgataacag 450

<210> 18733

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C3

<400> 18733

ggttcatagg aagcaaatca cctaggacaa ggtgaaacct tctctgtagg caagcaggca 60

aaaggggaata gatgttccca tcctgatcaa aaggaataaa aatattctga aaattgccac 120

atcc 124

<210> 18734

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C4

<400> 18734

ctttgtccgc gtggacgcgg ctgacttgcg aaccacccgg accaaccagg acttgagcgc 60

tgcggcgtcg gagttcgccg gcggtgagga gcagaagagg aagggaaacca aacaaagatg 120

ggctgctcca tctcggggct caacgcgctc tacgacgcgg ccacggggcgg cggcgacgtc 180

tggatcaacg agcgccgctt ccgcgtcctt cgccagatcg gcgagggcgg gttcgccttc 240

gtctacctcg tcagagagca ccagcccgcc tccgatgcgg cgttcgctag gcgtgacccc 300

gccacgtct cagaggatgg aacgtatgcc atgaagaagg tgctgatata gagcaaggag 360
cagttggatc tggtagggga ggagatccgt gtgtcgtcct tattcaatca ccccaacctt 420
ctgccgcttc ttgatcatgc cataatagcc 450

<210> 18735
<211> 171
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-019-Q1-K1-C5
<400> 18735

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acgggctctt gccggcgccg ccgcagagga tccgggcggc ggccggctgcg ctctgttgga 120
catctgggag catctggcgg tacccttct ctaccaatac caggatgatg t 171

<210> 18736
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-019-Q1-K1-C6
<400> 18736

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ggggaggccc ggcgatctct tctgttgctg gcggcgaggg agtaaaagga gccgcgacag 120
gatgcactcc tttgggcacc gcgccaacgc ggtggcaacg ttcgcgggtca ccatactggc 180
cgcgatttgc ttcgcgcctt ccttctccga caacttcaac accccgacac ccactgcctc 240
cgtaagatc ttgaatctaa actggttcca gaaggaggcc aacggcaacg acgaggttag 300
catgacgctg aacatttcgg ccgaccttgc gtctcttttc acgtggaaca caaacaggt 360
gtttgttttt gtggcagcag agtatgagac tccacagaat gctttgaatc aagtttccct 420
ttngatggc attatactg caaag 445

<210> 18737
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-019-Q1-K1-B2

<400> 18737

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agcgggtggga cgacaccgtc gcaggccccgc gcccgacac cgggctcggc cgcctccgca 120
agcagcctgt gcgtcccgcc gccgtcaaga tcagtgatcc ggccggggac gctgcggcgt 180
tcgtgccgcc ctgcgccggt tcgggtagcg aggagacgcc ggtgaagggtg acgcgcagca 240
tcatgatcaa gcgccccgcg gggtagccgt cgtcgccgag gagcgcgga agcacgccgn 300
cggcctcgcc actggggact acggccgcca tctcgccgtt tgccggcgcc ggtggctcgt 360
tcagaaggaa atcatcgtcc gacgcatacg agagggcgac cccaccaggg acgaccagcc 420
accc 424

<210> 18738
<211> 237
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-018-Q1-K1-H7

<400> 18738

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cggcgtcgtg ggcggagact ttatcttaag cctgaccgag cccccgtct gcacaccgag 120
gccgtgggac tgctgcgaca gcgtggcctg cacaaggac tacatncca actgcatgtg 180
cctggacaaa gtggagtcgt gctcgagcaa ctgcgaacg tgcaagtgc tggatca 237

<210> 18739
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-H8

<400> 18739

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tggctattgc tcatgctatg ggcaatctct tcaccaacat gagccttgag aaagttgcag 120

tgatcatttac gcacaccatc aaggcta

147

<210> 18740

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-018-Q1-K1-H9

<400> 18740

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cgtccagggg gacctgtttg ctgccttcaa gatctgatta tgctctcatg gtctgtattg 180

ttgtatgggt ggacccaaca atattcttgc atccccgact acagggtctga tcgcatgaa 240

agcttctgtt catttgagct cgggggagtc cgctagtctt atttttcttg atttctcttg 300

gctttctgga accatacgaa tcaataagaa atgagctgtg ttcactttcc agttcctncc 360

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<210> 18741

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A1

<400> 18741

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ggttcaccgg gatttattaa gttagatgaa gacattttat cccctctagc agtaaagaat 120

gaactgtaca cataccaaac acttgatttc tgggaacata tcacaacccc agagatgtct 180

taatgaactc tggagtatat ctctctcagt attcccatc ctattctcat cttttagact 240

catgacatgg cataaaaaact agcactattt gtggcgatgt ctatatgcat tcatttgaca 300

aagtgcaccc tacttcaaag aatgggtcca atgtctctat atcagccaat gcacgctttg 360

tatcttgtgc caggcttatt aaattgcata at 392

<210> 18742

<211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-A11

 <400> 18742

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 gtttcagaac gtgcggcagt ttagccagga tgggtggcgat cgagaaccag aaccagagcc 120
 aggccgcggt ggcggtggcg gcggaggcgg tgccggcgcc ggcgccgcgg atccccaagg 180
 aggcgcgggc cctgctgcac gagctggcgg cggcgtgggc ggacgtggcc gactgccgcg 240
 cgctggaggt cgtgccgctc aagggggcca tgaccaacga ggtctaccag gcgcgctggc 300
 tcaactgcagg ccctgccggc caggaggagg agcccagggc ggagagggag gtgaggaagg 360
 tgctcgtgcg gatttacggc gacggcgtcg acctcttctt cgaccgcgag gacgaggtgc 420
 gcacct 426

<210> 18743
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-A2

 <400> 18743

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 cggtaacccc tcctctaagc tcgccgtctg cccggacgcc ccggatgaag acggactggg 180
 acgaagcggc cgtccagcct ccatggcacg gcgcaagcag cccacagata gtgaactcca 240
 cgccgcccag ccccggtcgg cccatcgcg ctagccggc atggctcgcc ggcattccaga 300
 tctcgtccac cagtccaaac tccccgacat tcagcctcgt ctccaccaac ccgttcggcg 360
 tcttcaagga gtccatcccg gtcggcggcg gcgactcgtc gatgaggatg tgcacgccgg 420
 ggcagagcgg cgctgctcc ccgc 445

<210> 18744
 <211> 368
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A3

<400> 18744

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aacagaaaaac tgagatccac agataagtct gaagcataaa ggtggcacct aagattccag 120

tttgaactaa accaaagagc aagggaacct tttttttttg atagaacagg aggggagggc 180

ccctactgga aatttttattt aaaatttgaa aagaaaacaa tgttttagaac aaacaagaag 240

acaaattaca ggggggtaag gagagtttgt actgccattg atttctactg ccattgttga 300

agccaagtgc ggatggcaga atcaaactta tccaaagctc tgtgaatgac aaggagcaat 360

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<210> 18745

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A4

<400> 18745

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tggggagccg atggacctga tgactgctct gcagcttgctc atgaagaagt cgggtgctca 180

tgatggcctt gttaagggtc ttcgtgaggc tgccaaagcc attgagaagc atgctgctca 240

gctttgcgtg cttgcggagg actgtgacca gcctgattat gtcaagctgg tgaaggctct 300

ttgctctgag cacaacgttc acctggttac tgtgcctagc gctaaaactc ttggcgaatg 360

gtctgggctt tgcaagattg attctgaggg caaggcgagg aaggttgtgg gttgctcctg 420

tgttgtcgctc aaggactatg gc 442

<210> 18746

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A5

<400> 18746

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cacgagactt tgttaggtta gatcaagaca ttttatcccc tcgagcggga aagaaggagc 120

tgtacacata ccagacactt gatttctggg aacagatcaa aaccccaggg atgtctttga 180

gatgctctgg gttatatctc tctcagtttc gccatactc tcctcatctt ttagcctcag 240

gagatggcaa aagaactgcc actattgttg gcgatgtcta tatccatcca tctgccaagg 300

tgcatactac ttcaaagatt ggcccaaagtg tctctatata agcaaagca cgcgttggag 360

ctggtgccag gcttatcaat tgcataattc tggatgatgt tgaaattatg gaaaatgctg 420

ttgttataca ttcaattg 438

<210> 18747

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A6

<400> 18747

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ccaggcgcaa gactggtggc aagcccaagc cagcggggtc cggcagcccc tcgtacggag 120

ccgaccgaat cctgtacctg tgcccgatgt gcggtcagcc accaagctac ctgaccagcg 180

agttccccag gggactacgg ctgggacacc aaggcgctgt ccgccgaccc ggagactttc 240

gccaagaacc gcgagattga ggccagccac tgctgtgga ccatgctaag cgcgctcggt 300

tgcatacac cggagctgct cgtactgaac gtcgtcatga tactctaggc caattggatc 360

aaggccgggt gacagatctt tagcgaaagc cgacttgact acctaggtga tcctagcctg 420

atccacgcgc atagca 436

<210> 18748

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A7

<400> 18748

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 ccgggcgatc gatcttttgc atggcagcag cggctagctc caaggggagg gcgatcgctg 120
 ggagcttcgt cagccgcgtc ctggccggca aggccgacta cccgaggagg gccgtgcacg 180
 cctcgtcgta cgacaagaac ccggaggagc aggtgcgccc ggcgcttcgtg ccagacgatg 240
 tgatcggcgg cgcgagagagc cccgacaagt actggagccc tcacccaag accggcgctg 300
 tcggccccggc ggcggtggac accaaccagc tgggcgtacc cgctgacgct gtcgacgcga 360
 atgcggctgc agcaagaggc acggtgc 387

<210> 18749
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-A8
 <400> 18749

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 aactgtggac gccagacttc aacaattctc tctgatgaac aagtccaata agcatgcact 120
 tagggtcata gctgagcatc tttcactaga atacgctgct gacatatagg atatatttgc 180
 caagatggat cttaacaagg atcaaatgct caatttctat gagctgaacc ttggtctgca 240
 taaatctggt caccaaatac ctcatgcaca tggtcaaata ctaatggaag ctgctgatgc 300
 tgatggaaac cggtccttgg attatggaga atttggtaga ctatctgtgc atctaacaaa 360
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 gtata 425

<210> 18750
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-A9
 <400> 18750

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gccgaacgga aacttctata agcctgcata aaccgatag attggatctg attatccctt 180
attcttgaga tcttttagtta gagttttccc ttctgtaggg ctaaaaccac gtgcagcttc 240
atgatataatc ctgcctctgt acaatcgtga acaaatatta cgtattaatg ctctatctgc 300
ctgtattata tatgctgctt tttgcccatg tgaa 334

<210> 18751

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B1

<400> 18751

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atgagtcatt aatcatcatg acggtatcat tggctttcgt ctagagcatg tagatccatg 120
agtacatata caggatcttt catggctact aaagagaaca catatggact ctctgctca 180
tataaagata cgacaataaa ctcacgtttc aaataatccc gagcatgatg acaaacgatt 240
tttatcccc attgcataac acctgctatg accttttgac taacatacat agcaatgagg 300
acacttaagc tttgttataa agtaaccaga taaa 334

<210> 18752

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-H4

<400> 18752

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acctctggct attgttcaga gctatgggca atctcttcac caacatgagc cttgggaaag 120
ttgcagtgtc atttacgcac accatcaagg ctatggagcc tttcttttct gttattcttt 180
ctgcaatttt ccttggcgag ctacctacta tttgggtagt atcttctctt cttccaattg 240
ttggtggtgt tgcattggca tctcttactg aggcacccct taactggggc tgctt 295

<210> 18753

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F5.

<400> 18753

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ggagaagatg gttttgccac agaggctgaa actgctgctt tacgaacatc atttaagacg 120

gaggttgctg cttggcataa gctcatccac cctaattgta caaagtttgt tgggtgcatct 180

atggggacca cagaccttaa gattccatca aacaattcca atggtgctgc acgtacaaat 240

ttgccagcaa gagcatgttg t 261

<210> 18754

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F7

<400> 18754

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aagaagtcag agaccaagca acgaatgagc tgctgacaat gtgagcaata agcagtcatc 120

agatgagaaa ggaacatgcc aagagcagtc ttcaagagct ggcatgcctg ctttagtgat 180

tgttggggaa aggcgtcaca tgcggttagt gggtcgtgta gagagatgta gtggctgggtg 240

tcgggccccgt 250

<210> 18755

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F8

<400> 18755

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ggatcaggcc aagctggctg cctcgtctat cgacagcatc gtgaacggca gcgacgccgt 120

catggagccg gttgttgctg gcagcaacac ggtagtagct gttgccaag tcgagttgca 180

aacaatgaac gtgcagcagc ccgctgatgt tgccggaccc agcgaggggg tggcggcgat 240

ctccaaaggg gggaaggtag ggccgaaccg gtgcagcgcc tgcaggaaga gggttgggct 300
cacgggattc aactgcc 317

<210> 18756
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F9

<400> 18756

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cacttggtgg ttttggcttg gagattgctt tagcttcttc ctttccttga cacggtgtcg 120
gattgagcag gaggagtggg gcatgagaag gggctcctgc cgcaggcctt gccttcatgg 180
ctaacaagga taaccgacag aatctgccag tggactgggt tatttccttc tgcaatcaat 240
cacgtgctga taaatgagta tcatccctac ccaaagggat catgccacac caagatggtc 300
ctgcctacta cctgtcgtt gctatcatat ctcttgcttc acctgtcgtg attaatttca 360
caccccatca aaagcttaaa gagcagcagg aactgatcc acaggactta ctggcccatg 420
agttgccttc gccagctgag acag 444

<210> 18757
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-G1

<400> 18757

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ctatccaaga gcacttcac acaaggactg gcatcttcta ccgtggagct gatggaatca 120
ttattgtata tgacgtgaca gaccaataaa gctttaataa tgtgaagcaa tgattgaacg 180
agatagaccc ttatgcaagt gataatgtta acaaactcct tgttgagaac aagaatgacc 240
tt 242

<210> 18758
<211> 179
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-G10
 <400> 18758
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 ctccacgtca aagactacag ccacgtgcgc tgcaaaatca gcagctggat ctccggccac 120
 taccacctct tcttcacatg ccccgcttat ctcaccacac ccggcggcaa catgcgccc 179

<210> 18759
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-G12

<400> 18759
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 agcaatacct gatcactact tcgcaatttt gtggggcgca ttttaggacc tagaggtaat 120
 tctctaaagc gagtagaagc atccactggg tgtcgtgttt tcattagagg aaagggctcc 180
 atcaaagatt caggggaagga ggacaaacta cggggaaaac cgggctatga gcacctgagt 240
 gatccgctgc atatcttgat agaggccgag ttccctgcc a gtatcatcga tgcaaggctg 300
 agacaagcac aggagattat agaagaattg cttaaaccag tggacgagtc ccaagatctc 360
 tacaaaaggc agcagctcag ggagctggca atgctgaact caaccctgag agaggacagc 420
 cct 423

<210> 18760
 <211> 278
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-G3

<400> 18760
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 ccggcgagat ggctgcgatg tctcgcgcga tccgcatctt cgccgtcacg tcccggcgaa 120
 ccctgaccgc tgcttcgggg ccggctctgc cgaaggaagc ggccgctgcg gaagcgtga 180

tgagggcagc cgcgcccgtg cgcattgggac gggatctggt ggacaggaag ctctgtgcagc 240
gggtgctcct aggggtgcccc ctggtgggga agggctcc 278

<210> 18761
<211> 205
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-018-Q1-K1-G4

<400> 18761

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atgagctgct tacatctaca ttagaggtga atacgtgaat gagcgtctca accttgagaa 120
agctcggcag gaagcgtatg cagctggact tctgggtaag aatgctngtg gctctgggta 180
tgattntgat gtgcatattc atttt 205

<210> 18762
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-G5

<400> 18762

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gacagtcact agcagctact accgcggagc tcatggaatc attattgtat atgacgtgac 120
agaccaagaa agcttcaata atgtgaagca atggttgaac gagatagacc gttatgcaag 180
tgataatggt aacaagctcc ttgttgggaa caagagtgc cttactgcc acaaagttgt 240
ggcaactgag acagcaaagg cgtttgctga tgagatgggc atccattca tggagaccag 300
tgccaaaaaac g 311

<210> 18763
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-G6

<400> 18763

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cctggctgcg agcacacctc gccacgctcg agctgccggc cccgcccccg ctgccggccc 120
cgccgcagat gcccatgcca ggcccgttct ccatctcgga cctgccgttg tcgaccagcg 180
tccccaccac cgtcgacctg tccgcgtctc tcgaccgcc accaccgcag tgggcgacgg 240
cgcatcagcc gcaccaccac catcaacagc cgccgcagca ccacca 286

<210> 18764
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-018-Q1-K1-G8

<400> 18764

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agcgcgtcag ggaattccga agaagaccct cttactgaat acgagaaaat gagggctgtg 120
aatatgatga agaacaatca attgtttcaa cggctaggcc ttggacaatt aaaaacaatg 180
atcaccgcaa caactacaaa caacaatcaa ggcggtcctc aggaatcagn gttcttatat 240
gatggtgaga acgttgagga ttctggtgaa gaggatgttg gcat 284

<210> 18765
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-G9

<400> 18765

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cgggatggcg acgttggcac ctacgatact gctatcaact gcctcagcta acatggagag 120
cttgatgagg ccaatggaat cgtacatcat atcgtgcata agggttgttt gccttacacc 180
acaacgttca aactctcat tgatgctctc tgctcacata atccactcga tgaagcattg 240
gaccttgcaac gtcattctaac tgttaaggga cttctccag atgtctatac tttcaatact 300
ttgataaatg ccctttgca 319

<210> 18766
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-H1

 <400> 18766

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 gcaggctatg gaagccaggg ctatgggtat ggtggatattg gaggggatcc atcatagcgt 120
 agtcacggag gatatggggc ttatggagca cgtattgata gtgctggcaa tcctgctact 180
 ggtggatcat ctggatacaa tgcaggctat ggaagtgggtg gtgccaactc tggctattca 240
 agtgcttga gtgaccttc gcaaggggggt ggaattggcg ggtcgggtcaa t 291

<210> 18767
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-H11

 <400> 18767

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 tgcgcgacaa catccagggc atcaccaagc cggcgatccg gcggctggcg aggagggggcg 180
 gcgtcaagcg catctcgggg ctcactctac aggagaccgc cgcggtgctc aagatcttcc 240
 tcgagaacgt catccgcgac gccgtcacct aactgagca cggccgcccgc aagaccgtca 300
 ccgccatgga cgtcgtctac gcgctcaagc gccagggccg caccctctac ggcttcggcg 360
 gctaagctga tgggc 375

<210> 18768
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-H12

 <400> 18768

<210> 18771
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-H3

<400> 18771

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 tcacgttctg aactggattc aaggtacagc agcagagatg gactagcatc ttctgggaaa 180
 tcagagagtg gtcgcggcag tcgtggaagg gatgataatg gtagccgtgg caagtacgac 240
 cctggtgaaa ccgatgggcg atctcgtagg tctact 276

<210> 18772
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-D12

<400> 18772

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 ctcaatggct gtgtcttcat caaagaggcg taccaggttt actggtcgag ctgtgtcaag 180
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 ggaacagtca tgctgatatt tgngatgggt ctctacggcc tcttcatcag caacgctccc 300
 gcgggtgttc ctctgaatc cgaccgtgcc ctgagcggct cgtcactggt cgggatgttc 360
 gctttgaagg aaccgcccga gtggatgaac atcacctngc ttgacgagct caagacaaaa 420
 gtggggcacg 430

<210> 18773
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D2

<400> 18773

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caaataataca aatgggtgacc tgtatttttca tgttctgcta ggtatgacga attggctagc 180
aagagcaatg ttgaatacat tgctggagga gccactcaaa actctatcag ggttgcccaa 240
tggatgcttc aaattcctgg tgcatacaagt tacatagggt gcacgaggaa ggataagttt 300
ggtgaggaga tg 312

<210> 18774

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D3

<400> 18774

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tctgcatttt tgctacgagc atcctggaaa tgagatggag tgggttaggc atcgatgact 180
ggtggagaaa cgagcagttt tgggtcattg gaggcgtgct ttcacatctc tttgctgtgt 240
tccagggact cctcaaggct atagctgggt tagacacgag ctttactgtg acatccaagg 300
gtggagacga cgaggag 317

<210> 18775

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D4

<400> 18775

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caagtgaatc aaactgagcc agtgaagaag tttgagccca gatctaaact gtggtctgat 120
actttgagcc gaggtctagt caatctggac atttctggac caaaagcgaa tcctcatgct 180

gatattggat agtgactttg attca

205

<210> 18776

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D5

<400> 18776

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cccggagaag cgcgcggtgt acgaccagta cggcgaggag ggtctcaagg ggcaggtgcc 120

gtcgtcgggc gccggcggtg cgggtccccg cggcgcaacc ttcttctcca ccggcggcga 180

cgggccgacg gtgttcgggt tcaaccgcg caacgcggag gacatcttcg ccgaattctt 240

cgggtggctcc agcccccttcg gcggtatggg cggcggtggc attggcggca gcggcatggg 300

gggt 304

<210> 18777

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D7

<400> 18777

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ccgtcgacgg cgtggcctgg ttctcgacc tcttcgacta ctacatccgc accgacgagc 180

gcgacgcctt cagcaaggag ctgcgactcc agaccaaggt gttctatttc gatatcgggg 240

agaacaagag gggccgattc ctcaaggttt ctgaggcctc tgtcaaccga aaccggagta 300

ccata 305

<210> 18778

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D8

<400> 18778

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gcaggtgggtt cccggtggag atgacaacga tctggagctg aacgcggagt ccacttcct 180
gagcttcgtg cagcggttcg gcaagtccta caaggacgcc gacgagcacg cgtaccggct 240
gtccgttttc aaggccaacc tgcgccgcgc gcgccg 276

<210> 18779

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D9

<400> 18779

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aggctaggta tgtagggaa aaaaatttgg tgcagcactg ctgcaaacca gagtggttgc 180
agccccctcac aaaaagaagg atagaccca cccgtatttt ttccgtatgt tagttacgca 240
cgcggtagac cctagtgttg tttcatgcat ggatcagtct tatggattct tgtattatat 300
ctgttcccc attaacagtg gctgtcaaag ttttgggt 339

<210> 18780

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-E2

<400> 18780

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ttgatttgac tactgttctt ctttttgtaa gcacatttgg tgtttgatac aagaattggc 180
taatgaagat gtcatttgca gtggctcgct ctttacaat tccaactggg ttgcatttga 240
cgaggacaag gactgaatg atggtttggg tagccagaa gtttcccat ctccaaattc 300

<210> 18781
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-018-Q1-K1-E3

<400> 18781

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acctcgcccc gccgcacccg ctccagtcta ccatccaatc ggagaccaag ttctgggcgg 180
acaagaagaa gttcggggaca gatgccatat acggatccgn cctcaacatc cgcaaggatc 240
tcgatgcccc aatcctctcc agggtcacaa ggcccccttg tgctttg 287

<210> 18782
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-E4

<400> 18782

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gatgacttct tctgagctgg agaatgccac ttcggaactg ttcaacgtcc tcacaaggct 120
gctagacaac tttccagatg ttggcactga gaaaatcatt gaggccatga tgtactcgtc 180
aacctcaagg agcttgctcag atcatgaaag gatgaacgcc agaaaagaga tattgactag 240
ggctttcctt agaagcctcc agaccgatga caccg 275

<210> 18783
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-E5

<400> 18783

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accggtcggg ttctgtgcg gggaacagga gagaagggga gagaccgaga gagggggagg 120
cgcggcgtcc gccgatctg ctccgacccc cgacgcatcc tgtcacgccg tctcactct 180
cagccagcga aaatgggtgc cggaagcagg atgaccgaga aggagcggga ggagcaggag 240
catgagcagg tcggccgtgc taccggcggg ggcgcggc 278

<210> 18784
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-E7

<400> 18784

accaacaaca acagcaacgg cgtggagggtg aagagctact tcaacaagtc cgccgggagg 60
gcggcgagca gcaacaacaa caacagcagc cagccggcg gcggcaacaa gaagggcggc 120
gccggggagt acggcaggaa gaagcacgcc aagagcgatg gcgcggcggc ggcggcggcc 180
acggacaagc agcggttcaa gacgctgtcg gcg 213

<210> 18785
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F1

<400> 18785

gtcaagcgtg aaaagatcag gaggaaccag ctgatctacc aggacaagcc gcgggtcaag 60
actgggttgg agatgctcag gaccagcatg tacatagaag acagcttgtc acaggtgacg 120
ctgccgttct tcgtcctgca cggcgaggcc gacacggtga cggacccgga ggtgagccgc 180
gcgctgtacg agcggttcggc cagcgccctac aagaccatca agctgtaccc ggggatgtgg 240
cacg 244

<210> 18786
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F10

<400> 18786
gaatcgtctg ccaactacgc aggccgtggt ggtcgtggtg accgcggcag ggggcgtggt 60
gcccggtggcc gctggcgcg gctggtgga ccttcgtccc gcatcagcga caatcgtggt 120
cgtgggtcaa acgcacgacc gccctgccag atctgtggca aggaggggtca taccgccatc 180
cgttgctggc acaggaatga cgacagctac aacactgatc ctcccatggt ggcaatggcg 240
gccacctcct cgacaaaaat tgatccaaat tggtagctcg acacgggagc aacagatcac 300
atcactagtg atctcgatcg actgatgctt cgtgaacgct atcatggtgg tgagcaagtc 360
caagtcggca atggtgcagg accgtcagac gaagagaaag ctcttgggaag gacaatctaa 420
gaa 423

<210> 18787
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-018-Q1-K1-F11

<400> 18787
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agttcgccga tctgtggcgg ccgcccgcgt cacctgtcag tcgtcgattg gagcagccgc 120
cggcgcgacg tgaggtatgt gaccgtcagc ctgccagtcg ccggtgtgca gtgaggtctg 180
tggccatcag cctgccagcc gccgattgga gccgccaccg cgaggtctgt ggccgtcggt 240
cgttgattgg agccgcgcgc cgacgagccg tgggctcgtg gccgatgccg ccgtcgattt 300
gtggtcatca gtcgtgatt ggagttgtcg cccgatgatt ggtgggtttg tagccgcccc 360
cgccaataga ctgtgggttt gtagccgttg ttgtcgatcc gtgtcgcagt gccacccatc 420
gatccac 427

<210> 18788
<211> 448
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-018-Q1-K1-F12
<400> 18788

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 cgagggcatg aacggcaagg agctggacgg ccgcaacatc accgtcaacg agggcccagtc 300
 ccgccgcggc cgtggaggcg gcggcggcgg cgggtacggt ggtggccgtg gaggcggcgg 360
 ctacggcgggt ggccggcgcc gtgatggcgg cggcggttac ggcggtggcg gcggctacgg 420
 tgggtggcggc ggccggctacg gtggtggtg 449

<210> 18791
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-A9

<400> 18791

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 ggaaacgcgc tcgcgcagct cgaccctgcc attcgcaaag tggatagccg gtacaccgcc 120
 attgccaaagt ccttcattgt caactcaggg attgcggatt ttttcctcgt cgacacaacg 180
 ccgttcattg tccactactg gaacaacacc aagttcgatt ggagaggcgt cgctcctcga 240
 gacacctaca tcgcgaatct cctcaaggac ttgaagtgtg cactgacagc gtccaaggct 300
 ccctggaaga tcgtcgtggg tcaccacccc atcagcagcg cctgcgggca tgggaacaac 360
 actgagctgg aggagttgct tctcccggtc ctcaggacac acggngttga catgtacttg 420
 aatggccatg 430

<210> 18792
 <211> 132
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-B1

<400> 18792

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 ataggtncta cggctcggct attctgaacg gtaaaaacttg cacaaggcaa ctctgacatt 120
 acaacaatgg at 132

<210> 18793
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B11

<400> 18793

gcagaagcca ccgatcggcg tgccgcgtgc gtgaggcgat cggagcatcc cgtgccgagg 60
 aggaagacaa ccggcgacgc ggggggaaca tggggaagac gccggtgcgg atgaaggcgg 120
 tcgtgtacgc gctgtcgccc ttccagcaga aggtaatgcc ggggctgtgg aaggacatca 180
 ccaccaagat ccaccacaag gtcaccgaga actggatctc cgccacgctc ctctcaccc 240
 ccgtcgtcgg cacctaccaa tacgccatgt ggtacaagga gcaggagaag ctttcccaca 300
 gatattaaat gcgctgcctt tgacagacag cactcggagt tttcatgatg ggtttcataa 360
 tcttcccatg atgatttaac atttgtttga tcaatttcag ttcaacgcct tttcatcggt 420
 ccatatgcat atatg 435

<210> 18794
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B12

<400> 18794

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 cacgtggatc tgatgcccg catccccgac gacgtcgccg tggactgcct ggcccgcgtc 120
 ccgcacgcct cccaccgcgc gatgcgccgg gtctgccgcg gctggcgagg cgccgccgcg 180
 gcgccggcct tcgcgtcggc gcgcgccgcg gcgggcgcca acgaggacct ggtgtacctg 240
 atgcagttcg ggaaccgcgt cgccgacgac gggcccaagg acggggacga cgggccgggc 300
 aacaccccg cgtacggcgt ggcggtgtac aacgtgacga cgggcgagtg gcggcgggag 360
 cgcggcgcgc cggc 374

<210> 18795
 <211> 180
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B2

<400> 18795

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cctggggcgt cgtaggcagtg gccaccgagc tgctgcgcgc gcgcaacgtc ctcttgccgg 120

cgccgcccga gaggatccgg gggggcggtg cggcgcgccg gagggcatct ggtagcgaca 180

<210> 18796

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B3

<400> 18796

gaggtgctgg ccaccaatgg tgacactcat cttggaagtg aggactttga ccagaggatc 60

atggagtact tcatcaagtt gatcaagaag aagtagcga aggacatcag caaggacaac 120

cgtgctcttg gaaagctgag gaggggaagcc gagcgcgcca agagagccct cagcaaccag 180

caccaggtcc gtgttgagat cgagtccttc tttgacggga ccgatttttc ggagccgctg 240

accggtgcca ggtttgagga gctgaacaac gacctcttc gcaagaccat gggccctgtc 300

aagaaagcca tggaagatgc tggccttgaa aaga 334

<210> 18797

<211> 323

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-018-Q1-K1-B4

<400> 18797

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tgaaggggta tccgctgtga ctgctcctat tttgccagga aggcctaaaa ttgaaaagct 120

ggagattgaa ggaagagggt tccacactga cctatatgcc gttcagggtg cctatagcgg 180

aggcaaagaa ggcaagagta aaatacaatg gctcagatcg atgggttgaa gccctgatct 240

tatctncata cctggcgaaa ctggaagaac gtatgaagct aatggtgatg atgtanggta 300

taggcttggt gcaatttata cac

323

<210> 18798

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B6

<400> 18798

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atatggtacg tgagcccggc cgagcgagag cgaggtacag gcatggctgc tccgaagctc 120

gcgacgctgg cgctggccgt gctcctggcg gcgaccgtgg tggctaccgc ggccgcggtg 180

cacgcggcga tgctgtgttc caccgtgtac agcacgctga tgccgtgcct gccgttcgtc 240

caaatgggcy gggccatgcc gtcccagccg tgct 274

<210> 18799

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B8

<400> 18799

caccaagcag agcaagccag tgaggtctct cagagcgtag ccagccagct acaatggcgg 60

tgagcgcgct agccaactat gtccaggtct acgtcatgct cccgctggat gtcactactg 120

tcgacaacac gttcgagaag gaggacgaga cgagggcgca gctgaagaag ctgacggagg 180

cgggcgcccga cggggtcatt atcgacgtct ggtgggggct ggtggaaggg aaggagccgg 240

gagtctacga ctggagcgcc tacaggcagg tgttcaagct ggtgcaag 288

<210> 18800

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B9

<400> 18800

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gaagagaagg cctgcgagcg atgggcatcg tgcagtcgt ctccgagttc tgctccttgc 180
 cgaggactcg ccggcatctc aagaagagga agcagttcca ggtatatata aaccatcttc 240
 ttctatttct gttcggagtc tcttatccca gccagcccaa caactgaact gaacggg 297

<210> 18803
 <211> 242
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-C3
 <400> 18803

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 ggaggtggac agttgtacat gtggggtaag atgaagaata caggcgatga ttggatgtac 120
 ccgaaacctg tgatggattt aagtgggttg aacattcgct gcatggcttc tggtaacatg 180
 caccacattg ttggtgctga tgattcttgc ataagctggg gtgtcgccca taatggagag 240
 ct 242

<210> 18804
 <211> 329
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-C4
 <400> 18804

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 aaaggtgatg gagaaaaaag ttgtgaagac attgatgaat gcaaagagaa actttactgt 120
 cagtgcagg gttgcagctg caagaatata tggggaagct acgagtgcag ctgtggtgat 180
 gacaatatgc tatacatgag ggagcatgac acttgcacat gcaaagaggg aactgccact 240
 actgttggct ggagcttcct ctgggttatt ttctttggac ttgtttttgc tgggggttga 300
 gcatacgccg tgtacaaata caggctgag 329

<210> 18805
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-C6

<400> 18805

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ctgagtatga gcgcaagttt ttcgtagatg actcgcggtc acggcaatat ttgtgatatt 120
gtgtcatctg tggactatgg ttaaatttca gttatttgtt ttctttcacc ttccagaact 180
gttagcaaga gcattctgga ccaggatgct cgaacacaac tggctgtatg tacatttggg 240
aatggtgaat aaagaagggg taataaactg ctgcgaaata aaa 283

<210> 18806

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-C8

<400> 18806

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tgtcctagtg aggggtgtacc ccggctgctg gcgtgcttga gtcacaatct gctccgccga 120
gagcctttga agctcgtcga tggggggccag tctcagagaa cctttgtata catcaaggat 180
gccatcgaaa ctgatgagct catgattgaa aatcctgctc tagccaatgg tcacatcttc 240
aatgctggga atcctgacaa tg 262

<210> 18807

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-018-Q1-K1-C9

<400> 18807

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gatggccaag tcgaagaacc acacggcgca taaccaatcg ttcaaggcgc acaagaacgg 120
catcaagaag cccaagcgcc accgccagac ctccaccaag gggatggacc cgaagtttct 180
gaggaacttg aggtactcaa ggaagggcaa caagaagagt ggcgaggctg agtccgagga 240
gtaagatgat ggtgattgag tttgtggcga caaatgcatc tcttgatcgc ctaagagtct 300

tagctgtgaa cttagttctc acttctgtgt gactgtgac aaaggagac catcagttgg 360
taccgaagtg tattttatgt cttgttggtt acctggaatt taattaanac catcagttgt 420
at 422

<210> 18808
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D1

<400> 18808

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gcggaagag gacagtatca catagggggg aagatgaaga atacaagcaa tgattggatt 120
taccgaaac ctatgatgga ttcaaattat tggaacattc actgcatggc ttctggtaac 180
atgcaccac 189

<210> 18809
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D10

<400> 18809

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aaatagttca aattggttga acgaagagca tgacgtacag atggctgatg tggaagaaga 180
gcatggcgaa cagatggatg atgtcgaaga agagcatgat cttggaaatg atggtggtga 240
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gaagaacctg atcttggaag tgaatggggg gaatatgac ctggggaatg ttttgaatgg 360
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tggt 424

<210> 18810
<211> 208

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-A8
 <400> 18810
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 agacggctac gagaaggacg aggccggcga caaggacaag gaccggcgccg tcagcctgta 120
 catgcactac ccgcgggttcc cgttcgctgg aggggtactac cagccggccgg cctaccgcgtc 180
 gtctccggggg taccggtacg cctaccag 208

<210> 18811
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-H12
 <400> 18811
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 cggtcgccat ggcctcctcc tcttctgagg ttagggccgc gagcaggagg atcgttgatt 180
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 cccctgctgc ggttgcggtg gggaaacagg ccaagtcagc gctgcccagg ttcagggtggc 300
 cgcggtctgt caggctgcgg agagaggag gcggcgacga ggggaagccg ggggtcgtgg 360
 tggagaaggg cgacgacctc cacgt 385

<210> 18812
 <211> 124
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-H2
 <400> 18812
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 tcggattgca agctaccatg caaatgactg acaggaaaat gatcctagcc acacgcatac 120
 aaaa 124

<210> 18813
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-H3

<400> 18813

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cccaaggccg agaggaagcc cgcggcgaag aagccggtgg aggaggagcc cgcgcccgag 120
aagacgaccg ccgggaagaa gcccaaggcg gagaagcggg tccccgctgg caagtccgcc 180
ggcaaggagg gcggcgaggg caagcgtggc aagaagaagg gcaagaagag cgtggagacg 240
tacaagatct acatcttcaa ggtgctgaag caggtgcacc cggacatcgg catctcctcc 300
aaggccatgt ccatcatgaa ctcttcatc aacgacttct tcgagaagct ggccggcg 358

<210> 18814
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-017-Q1-K1-H4

<400> 18814

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ataaggttat acgggtcgta acgacaaatt tagagcctca ggactaagtt ttagagttct 120
aaaagcttca gtgcacttta gctcgcttta aaagctctaa agctttaatt taagggtggc 180
ttataatggt tagaggtaac atgtaaatca tttgtttgga gccttaactt taaaacttaa 240
agaggttaat tacccaaaaa gaccccaggg ccaataaacc ttaaccccat tgccttgggt 300
cccagcacgg atcaaaatct cttcaaacga gatgaagaac ggaatgggtc gtcgcttcac 360
atatagcgcg ggtgtgcaa gattcaggac ggaaagtcca gtttgtcacc gc 412

<210> 18815
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-H5

<400> 18815

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acgggaacgg cggaagcaaa caactagaaa ttccccagcc cggttctttg cgtgcggttg 120
atctcgtcgg agggccggcc gcggttcccc aatccgcat cgaattcgat ggccggccaac 180
gccgggaata agatccgcaa cgccaagctg gttcttcttg gagatgtggg cgctggcaaa 240
tctagcttgg ttcttcgggtt tgtaaggga cagtttggtg aattccagga atcaacaatt 300
ggagcagcct tcttttccca gaccttagcg gtcaatgatg agactgttaa gttcgaaatc 360
tgggatactg ccgggcaaga gaggtatcat agcttggtt ccatgtacta taggggtgc 419

<210> 18816

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-017-Q1-K1-H6

<400> 18816

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atatgggcgt gtttggtatg cagcctccca tgcaactgcc tgacaggcaa atgatactag 120
ccacaggcat aggaaatcga acgcccggca ttgttgcttg ngccaggcaa gaaactgata 180
aaacttaggc gtatagtgtt ggatgtctca tccactggac atacacttaa gtttctgtca 240
gcttctgatt ggattgaaat gttccttact ttgagcatta aggtgcttcg gtagaaggta 300
cgagcccgcc atcttttcga cctatactg cgagatgtcc gtgcttgagg tagctctatg 360
tcgagggaaa gacgtcgctt agagccatcc catctctgag catcgnggtc tccccgatgt 420
ggat 424

<210> 18817

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-H7

<400> 18817

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 gggcctggcg gcgagggaga gatggggaag aaccaggcgt acaaggcgat gcagcgggcy 120
 cggctgggggt cctcgtccgg cgcgccgggc gccgccgacg cccccgaaga cggcatggaa 180
 gaggaactga aaaggggtga gctggaggct gacaaagaca aaatgatgag agagtataga 240
 gctcaactgg atgctgaaag agctcaaaag ctagcaaacg gaagaaatca ctcaagggtca 300
 aactcaaaat catcatcttc caagaaagag aggaaggata aggacgc 347

<210> 18818

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-H8

<400> 18818

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 tttggctgcc atccccgccg ccgcgaggac caccgcccgc accctacgct ccgtcgtccc 120
 ctcccagggg atgcgctgct cgatgcgcaa gaaggggttg caccgaggaga tctacgagga 180
 cgcgaagggtg tactgcaacg gcgagctggt gctggtgacg gggggcacca agccggagta 240
 cacggtggac gtgtgggtccg gaaaccaccc ctactatgtc ggcgacacct cggcgctcgt 300
 ggtcatggac agccagatcg agaagttccg caagaagtgg ggccacatca aggagtactg 360
 gcccgaggac cagtggaggg agatgcaccc agacggcgac ccggagttcg agcccagagg 420
 ggacaactg 429

<210> 18819

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-A1

<400> 18819

caaaatgcgg tagcattggt gaagcacgag ctgtatttga gagcattaca tgcaaagacc 60
 tgggtgtcttg gaactacttg atctttggat attcacagca tggccttgcy tgagcattga 120
 ctatactggc taagagactt ggatggacac atgataccgg atgcac 166

<210> 18820
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-A11

 <400> 18820

 gcgcatacac aaatggcacc tgtcgtacag caagatgtat gacaggcacg gagacgctgc 60
 atcgacatga tgcattggcca ttatactgcg cgacgatcga gccttaaatgc aggtctgctg 120
 ccacattgaa gtctggatct gcctgtaact gaccttcctc gggtagcatt cgggcactat 180
 gtacacacgt ctggggccatt accaagtatg cggccgagac gcggtagcat gcattgcgcg 240
 cgcgaagtga ctctatggca ggggacgcgg tgtgcgcgtg tcttgagatg tgattccttc 300
 cttccttggt tagttgctgc tgctcctgct ggtgtagtac tgggtgatcc agtcctttta 360
 atttcttgat tagtttgctc ggctgaagaa atcaggacgc gtgcctggag ttgctgctca 420
 gctccatgta ctt 433

<210> 18821
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-A12

 <400> 18821

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 ttgggttcga ggaagtgcgc aagcacaacg tcaccaagga ctgctggatc atcatcgccg 120
 gcaagggtga tgacgtcact ccgtttatgg atgagcatcc tggtaggagac gaggttttgc 180
 tagctgtaac cgggaaagat gctacagctg atttcgaaga tattggccac agtgattccg 240
 caagggacat gatggagaag taccacatcg ggcagataga tgcttcaaca atcccagcaa 300
 agcgtgctca tgtgcagccc cagcaagcac ccagccatgc agacaaggat aatgaacctc 360
 ccatcaagat cctacagttc cttgtgccc ttatgatcct gggccttgca tttggtatac 420
 ggcagtacac 430

<210> 18822
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-A2

 <400> 18822

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 agctgccgat tcccggccgc ggcaacatac tcatactag cgcacttcg tacgtcaata 120
 atgtcccga cctaggaac atcatcggct gtgtgctcag cgcagacgtg ttcgcgcggt 180
 actgccggct ccgggggttac aacgctatct acatatgcgg gacggacgag tatggcaccg 240
 ncaccgaaac gaatgccatg gaggagaagt gcacgcccaa ggagatctgc gataagtacc 300
 atgc 304

<210> 18823
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-A3

 <400> 18823

 gcgtaagaag aagacgtaca ccaagcccaa taagatcaag cacaagcaca agaaggtgag 60
 actcggccga ctgcaattct ataatgcgga cgacgccact ggcaagggga cccgccttcg 120
 caaggagtgc cccaacacag agtgcggcgc gggcgtcttc atggccaacc acttcgaccg 180
 tcactact 188

<210> 18824
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-A4

 <400> 18824

 gggcgacaac atgattgaga ggtccaccaa ccttgactgg taaaaggcc caaccctgct 60
 tgaggctctt gaccagatca ccgagcccaa gaggccttcg gacaagcccc tgcgtctgcc 120

cctccaggat gtgtacaaga ttggtggtat tggaactgta ccggttggtc gtgtggagac 180
 tgggtgtcatc aagcctggta tggtagtcac ctttgggtcca actggcctga ctactgaggt 240
 gaagtctgtt gagatgcacc atgaggcgct tcaggaggct cttccggggc acaatgttgg 300
 cttcaacgtg aagaacgttg ctgtcaagga tctcaagcgt gggttcg 347

<210> 18825

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-A5

<400> 18825

atgaacgacc aaggcagtga tcatgactcc gtgcactccc ctggggctgt ctcgtcgcgc 60
 gaggaacacg tcgcgagcct tatttctggt tccagctgca gatcccaatg catgagctgt 120
 agttccagcg tataagacta agaggtcacc agagcagga caccgcttaa tcaggcg 177

<210> 18826

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-A6

<400> 18826

gcgatggtgt caagggcacc atctttttca cccaagtggg agatggcctt accactgtca 60
 ccggagagag tgtctggcct caagcctggc ctccatgggt ttcattgtgca tgcgcttggt 120
 gacaccacca atggctgcat gtcaactgga ccacactaca atcctgcgag caaggaacat 180
 ggagcaccag aagatgagaa ccgccatgcc ggtgatcttg gaaatgtgac 230

<210> 18827

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-A7

<400> 18827

ggctggtgga tccaccatc aagcacctgc tgcattgctg gcatgacgag ctcgaaaggc 60

ttgcgattga gcttgcaaaa actgccatca aaacctttgc tgaagtcata agcactatcg 120
 tgcattcttca ggaagaggaa gtaaacctaa ggaggcgggtg tgatgaaact cgtagggatc 180
 tgaaccgaaa gaaggcacag ttcgaggact ggcacaaaa gtacttggag agacagacag 240
 cagaaaactca aaacatagat cctgtcgagg ataggaaacg caccttcgag gaacta 296

<210> 18828

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-H1

<400> 18828

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 cattggaggc gtgtcttcac atctctttgc tgtgttcag ggactcctca aggtcatagc 180
 tgggtgtagac acgagcttca ctgtgacatc caagggtgga gacgacgagg agttctcaga 240
 gctgtacaca ttcaaagga cgacccttct gatacctccg acaaccctgc tctactgaa 300
 cttcattgga gtggttagctg gcatcttcaa tgcgatcaac aacggatatg aatcatgggg 360
 cccctgttc ggaaagctct tctttgcatt ttgggtgatc gtccatcttt accc 414

<210> 18829

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-F2

<400> 18829

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 gtttaccgcg ccgtcgctcc gtccaccgcg cgccggggcg tcgccacggc ggaggtgccc 120
 gccgaggccg tcgaggactc cacgttcgtc gaggcctgga aaaaggctga cccaacatc 180
 gagccccag cgacgcccct ctgcctcatg cagacgcgcc cgcccacgcc agctaccatg 240
 cctaccaagc tcaccgtcga cttggctcta ccctacaagt ccgagatcgc caacaaggag 300
 gttgacatgg taattgtacc aactacaact ggtcagatgg 340

[illegible]

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-F5
 <400> 18832
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 tgattcggtta attgaatgcg ctactattgc tgacaagtgt gcaaagggtg gtgcagtcgg 120
 gataaattgc acacctccaa gatttattca tggactgata ctctccattc gaaagggtcac 180
 agacaagcct attctgatat atcccaacag tggtgaaaga tatgatgggtg aaaaaaagga 240
 gtgggtggaa tccactgggtg tgtcagatgg tgattttgtt tcgtacgtaa atgaatgggtg 300
 caaagatggg gctgcgctta tcgggggctg ctgcaggaca actccaaaca ctatcagggc 360
 catacacaga actcttaacc aaggctgcca caagcatcag ttacctgtaa gctgtaacat 420

<210> 18833
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-F6
 <400> 18833
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 gggtcgatta tccaaagagg cctgcagacc tgaactatat atgcattctt cacgaagatt 120
 acgtgataca actaatgagg actgaattgg acctacgtgt gctcactggg ggaatctagg 180
 ctgttacggt tgggtacttaa aggcctacat aacgtactac ataggctatt gcatactata 240
 tgcaatacga tgcaatatag gaggcctctt gattaaacct tgttggcttc aacgtggaca 300
 atcgttctat aagagacctg cttacttact ctttcat 337

<210> 18834
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-F7
 <400> 18834
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cgttgccggt gggaggaaca agaagaccaa gcgcacagcg ccgaagtccg acgatgttta 120
tctcaagctc cttgtcaagc tctaccgttt cttggtcagg aggaccaaga gcaacttcaa 180
tgctgtcatt ctcaagaggc tcttcatgag caaaaccaat cgcccaccaa tctccatgcg 240
ccgccttgtc aagttcatgg aaggaaagga gaagaacatt gctgtgattg ttggcacagt 300
cacagatgac aagaggatcc aagaggttcc agcaatgaag gttactgccc tgagggtcac 360
cgagacggca agggccagga ttgtcaatgc tgggtggggag tgccttacat ttg 413

<210> 18835
<211> 176
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-017-Q1-K1-F8
<400> 18835

acactataaa tatgctgcac aactcatacc aacttactca tattccctca ttcaacttca 60
catacattca tatcaacata ataaatccta taatagatcc taattttctca cacacataaa 120
acacttcaat ctacaactct taatcaaact aacactctat ctcacatcaa tctaac 176

<210> 18836
<211> 387
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-017-Q1-K1-F9
<400> 18836

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cgtcaacttc gggcagtacc cgtacgccgg gtacctcccg aaccgcccgt ccgtcagccg 120
gaagccgatg ccggcgccgg gcagcgacga gtacgcggag ctggagcgca agccggagaa 180
ggtgttcgtg cgcaccatca ccagccagtt ccaggccctc gtcggcatct cgctgctgga 240
gatcctgtcc agccactcct ccgacgaggt gtacctcggc cagcgcgaca ccaaggagtg 300
gacgtcggac gccaaaggcg aggaggcggt caagcggttc ggcgcgcggc tgaccgagat 360
cgagaaacgc gtcgtcacca tgaacgc 387

<210> 18837
 <211> 339
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-G11

<400> 18837

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 gatgaggcca aggggaattgt aaatcagatg gtggatgggg ttgtttgcct gacaccacaa 180
 cgttcaacac tctcattgnt gctctgtgct cacagaatcg acttgaggaa gcattggacc 240
 ttgcacgtga gctaactgtg aanggactnt ctncagatgt ctatactttc aatattttga 300
 taaatgccct ttgcaaggta ngagatcctc atcttggca 339

<210> 18838
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-G12

<400> 18838

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 gtcgcgccgtg ctcttcggcc cgggcgtgcg cttegcgcgc tacctcgccg acgcgctccg 120
 gcaggactgc caggcgggct acctcgact tcagggtcaag gtcgacggcc gcgtgcggtg 180
 gaaggtcggc agctggatct cgggccacta ccacctcttc gtcacctgcc ccgcgttcct 240
 cgtcaccgnc ggcggcaacg gcgcccccg cgctttcggg ttcaggttcc agaccaccac 300
 gtactgtcac gtcgaggttt aattaggagc gagaggaagc agagaccatg gctacctctc 360
 tagctgctgc tcttgccgtt gcttgggtgtg gcaataactc tgtctatctc tctctctctc 420
 tct 423

<210> 18839
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-G2

<400> 18839

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cgtccttgat gatggcttca ctttcctagt gtggttaggt aggatgctcc cgcctgaact 120
tgtgaacaac attcttggag tgagcttggc aaacttcctt gacctatcaa agattgtatt 180
gagagagtgt gacaatgaat tgtcaagaaa tttcatgaaa atactaagat ccctgcgcga 240
gaaggatcct tcctatcacc agctatgccg tgtggtgcca caggggtgaac agccaagaga 300
aagctatctg cttctatcta accttggtga ggaccagatg gctgggacaa gtagttacgt 360
tgattggata cagcaaattc accgtcaaac gcaaagctaa tgacgaagaa ccaacaggaa 420
gcgatgcttg gaat 434

<210> 18840

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-G3

<400> 18840

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tccatgaaga tgtgccagaa gaagtccttg ctttggacaa aagagttgag tgtaactcca 120
ggattgccgt tgcactttca ttaatggatg agtgcttcct tccgattatt gaccagagaa 180
ctggcatcaa cttgatacga aatgttgctg atagctgtgg atcaaatttt gcccggttgg 240
atttccgtgg attctatata tttatttttag aacgtggaga tgaaataata gctgcagcat 300
ctgtccgaat acatggaacc aagtttagctg acatgcctgt cattggtacc cggaatatgt 360
ataggcgaca agggatgtgc cgccgacttg gagattgaat ccaaattgat ctcagctctc 420
tcaatgttga gaagttgatc att 443

<210> 18841

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-G4

<210> 18844
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-G8

 <400> 18844

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 tggccgtgct cctggcggcg accgtggtgg ctccccggc cgcggtgcgc gcggcgatgt 180
 cgtgttccac cgtgtacagc acgctgatgc cgtgctgcc gttcgtccag atgggcgggg 240
 ccatgccgtc ccagccgtgc tgcggcggca tccgcagcct gctgcagcag gccacaaca 300
 ccctcgaccg ccgcaccatc tgcggctgcc tcaagaacgt cgccaacggc gccaacggga 360
 gcggcaccta catca 375

<210> 18845
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-G9

 <400> 18845

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 tcacagcaac atcaaagttt tgcattccca gactcggcc agtccatgca gccaacaggc 180
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 ctgatggaga tcaggatgag gagccatgag attctcgaaa acgaagaaat gcagcagatg 300
 ttgcggcttc tgagccgggt ggtgcaggaa ccaacctaac tgaagatggc ttcagtttcc 360
 cttcgtacat gccttgaact tcacaaaat tgagctacga ggatgaccgn acccgtgcac 420
 ctgggaaag 429

<210> 18846
 <211> 308
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-F12

<400> 18846

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ccgtccgcct ggccctgcta atctacaaaa ctcatgcccg ccatcatcaa tatcgtctat 180

tacactcatg acaattacac actctacacc tcattcgaca ttcacaatga ctccgactta 240

caccccaact gtcgactcat ttgggaaaca ggatttcaca gtcctgcacc tactcaactg 300

tcctcatt 308

<210> 18847

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D8

<400> 18847

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acaccttcac gaggaagtgt atgacgggaa gcccggaag gacggccggc tggcggtcgg 120

accggtgttc cggagcgttc tggccaagga tgggttcccg cagcttgagc ctgacatgaa 180

gacatcatgg gacgtgttca gggtagcagc agtcaagtat gccgacaacc ggatgctcgg 240

atggcggtccg ttcaaagatg gagtgccagg gccctacttg tggaaatcat acaaggagat 300

ctacgacgag gtgctgcaag caggctctgc gttgcagaag ctgggagtc agccagggttc 360

ccgggtgggg atctacggag cgaactgtcc tcagtggata atggcaatgc 410

<210> 18848

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D9

<400> 18848

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gggcgagaag cagggcgcca ggaagacggt ggtgtaccac ctggcctcga gctcggacgc 120
 caggggctg gcgctgggca acgccggcga ggccgagttc aggaaggaga acgcgacggg 180
 actgttcgag gtggaggtgg cggtcaccgg caagttcaag tacacgctgc gcaagaccaa 240
 gtgcaagatc gagggcacct gccccctcaa actgcagctc gccacgccgg gggcggcgac 300
 gacgtcgtcc gtcgtgttcc agaaggttga ctgcgaggtc gccaaatccg acgacaagta 360
 ctgctagaga tgatgatggg ttgcaaattg tcattgattt ggagagatga tgtgttgggt 420
 ttgctcatg catgt 435

<210> 18849
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-E1
 <400> 18849

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 ccgctccgat ccgctagcga gcgagcagcg cgatggcttg cctcaccgtg tccacgaaga 120
 ccgcggcggc cggcggcaac aagcagcgcg agggcgcgga ggatcatcac ggcgcggagg 180
 cctgcttcgc gcaactcaaag cagatgctgc aggcgctggg cttccccggc ggcgtgatgc 240
 cgctgcgggg gctggaggag tgcggctggg tgcgcgagac cgggttcgtg tggatgcggc 300
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 aggtcatgct ctgg 434

<210> 18850
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-E10
 <400> 18850

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aaccaccaca agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag 180
 gtggtcaccg ccaccggcga gggcgagtac gagaggtaga agaaggagga gaaggagcac 240
 aagcacaagc agcacctcgg cgaggccggc gccatcgccg ccggcgccctt cgcactctac 300
 gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaagag 360
 gtcgctgccg cggcgccgtt cggcgccggc ggctacgtat tccacgagca ccacgagaag 420
 aag 423

<210> 18851
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-E2

<400> 18851

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 gtctagatat atagcgctac tcgaatgtat gtggaatgct accgtataac gcacatttgg 180
 gtgcaatgac tgttgcattg ctgcatgaat gatatcgctg gtacataata cagaaatac 239

<210> 18852
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-E3

<400> 18852

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 ctgaggcctc taagctaccg aggtgcagat gttttcgtgc ttgcattctc acttgtgagc 180
 cgagctagct atgagaatat catgaagaag tggataccag agcttcaaca ttatgcacct 240
 ggggtgcccc ttgttttggc aggcacaaaa ttggatcttc gtgaagacaa gcactacttg 300
 atggaccatc ctggattggg gctgtttacc actgcacagg gggaggaact tcgtagacaa 360
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<210> 18853
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-E4

 <400> 18853

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 agcgaaagca gcatgaagca aagcaatgga gaacctgcg agtgtgctag ctctaccagc 180
 gcagttcacc aaactcacct tcggaaacct gtacatacgc cgggccgggc cgggcagcag 240
 ggagataacc gaggaaggca cgtgcgacct gtacaggata tacgtgagta acttccacgt 300
 gtacgactgt cgtggccccg acgccagcct tgtagccgc gtacaaggga tcaccagcga 360
 aatccgg 367

<210> 18854
 <211> 422
 <212> DNA
 <213> , Zea mays

 <223> unsure at all n locations
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 <400> 18854

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 gccgggggtcc aagaacaagc cgaagccgcc cgtggtggtg acgcgggaga gcccacacgc 120
 gatgcgctcc cacgtgctgg agatcgccag cggcgccgac atcgtcgacg ccatcgcggg 180
 cttctcccgc cgccgccagc gcggagtctc cgtcctcagc ggcacgggcg cggtcaccaa 240
 cgtcacgctg cgggagcccg cggggggccg cggggcagcg gccgtcgcg tgcgcgggccg 300
 gttcgagata ctgtccatgt ccggggcttt cctcccggcg ccggcgccgc cggggggccac 360
 ggngctcacc gtgtacctgg cgnnggggca ggggcaggtg gtgggcggga gcgtcatggg 420
 gg 422

<210> 18855
 <211> 429

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-E6

 <400> 18855

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 gatggcacca ctgtgaattt gggcctttgg gataccgctg ggcaggaaga ttacaaccgc 120
 ctgaggcctc taagctaccg aggtgcagat gttttcgtgc ttgcattctc acttgtgagc 180
 cgagctagct atgagaatat catgaagaag tggataccag agcttcaaca ttatgcacct 240
 ggggtgcccg ttgttttggc aggcacaaaa ttggatcttc gtgaagacaa gcactacttg 300
 atggaccatc ctggattggt gcctgttacc actgcacagg gggaggaact tcgtagacaa 360
 attggtgcta tgtattacat tgaatgcagc tcaaagacac agcagaatgt caaagctgtg 420
 ttcgatgct 429

<210> 18856
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-E7

 <400> 18856

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 gatgcgccat gggcgccaag atgcttgtac aggaagccca agattgtcca gcacatattg 120
 tgttgaaatg aacgaacaca cggatatccat atcaccattg gcacacaatg acatagtgtg 180
 agtcatgttc ttatgatgta acctaccgat gtctcgttgt aactatggac agagaaaggt 240
 ccaagttcaa gcatggcccc atatccaaag gatgaacagc caggccctgc agatacatgg 300
 tcattgttgg ttacctgcaa cactatactg agagctatgg atatgttgaa cgtgtgtaca 360
 gctgtgagaa catttatacc gaggcattgct gc 392

<210> 18857
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-E8

<400> 18857

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tcttatcact cgccatggct ccctccaccg atccccattc gctcgacaat tacaacctac 120

tcacgcatct cttctaccac tccacatact tctatccctc taaaatactc actcccaaca 180

tcaactacct atcaacacat ctttaactaa ttcaatacca caccttcaac attattaaca 240

tccctaccaa tctcactcac aatttacaac tcccctacca ttcttaaaac accaactact 300

agatttacat tccaatatta ccacctacaa ctactc 336

<210> 18858

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-E9

<400> 18858

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gcttgcttgc ttgctgcagc gacggaggcg gcaccggcgc cggcagagac accgtcggag 120

gcggcgggtgg tagaggagaa gaaggaagaa gagaagaagg aagaggagga taagccggct 180

gccgaagagg cggcgccgcc agcagaagca gcagctgctg ctgaggagaa gtgatcctgt 240

tgacggatcg agcatgcaaa gctctccctc ctcgctccct tgcttgcttg cttgcttgct 300

gctggtaaat taaattaagt tgccgtgata cttaagcgta gccgcacgga gtgaaaagtt 360

attaagtaaa agcagacaaa cacttggcat gcatggacat taatttggtta ttctttgtac 420

cgtcgctcgc tcg 433

<210> 18859

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-F1

<400> 18859

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tttgtcagtt ttacatgect tcttgcttaa cactttacat taaaacacct ttaatactca 120

tattattaat tacacaaaga ctatctatcc atatctaaaa tgtaacaatt ttccaacccat 180
 tttaacatta tatactactt ctaatactta ctcccaaatt aataccaata ttatcactga 240
 tacactatcc acattaacat actaacactt atccaatctt atcgctatac actctattca 300
 cattacatct taatactcat ttcaaacaca ttcaaattct acacttat 348

<210> 18860

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-F10

<400> 18860

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 ggaccctggg cagcagccat tcagtttcag cattgggtcag ggttcagtga tcaaaggatg 180
 ggacgagggga gttatgacca tgcaagtggg tgaagttgct cgtatccagt gcacgcctga 240
 ttatgcttat ggagccggcg ggttcccagc ctggggaatt caaccaaact cagtgcttgt 300
 gttcgagatt gaagtcctca gtgccagta attcgcatct gtcagctatg gaaacgttgg 360
 ccatgcttct caagtaatga aataattccg ttgtcacctc atgctaata cagcagattg 420
 gtgttacgag ttaaa 435

<210> 18861

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-017-Q1-K1-F11

<400> 18861

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 agccggtatc caggtcggaa acgcgtgctg ggagctttac tgcctcgagc atggcattca 180
 ggctgatggg cagatgcccg gtgacaagac cattgggggt ggtgatgatg ctttcaacac 240

cttcttcagt gagactggtg ctgggaagca cgtccctcgt gctgtttttg ttgaccttga 300
 accaactgtc atcgatgagg tgaagactgg cacctaccgn cagctctttc accctgagca 360
 gcttatcagt ggcaaagaag atgcagccaa caacttcgcc cgtggtcact aca 413

<210> 18862
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-D7
 <400> 18862

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 ccgcaggcta ggagccaccg cagacggctt ctccccgctg cgcgccctgc tgcgttcagg 120
 cgcgaccggc tgagcactgc ccgcgcggcc gtcgcagggc caccggagggt ggacgaggac 180
 gattccatga gtatcgacaa cttgcatcgt ttcttcgacc tcaacgtcgg aaagtgggac 240
 ggctcattct accaattcga cgcgcacggg agggttcttc aggagattag cacgcggctg 300
 tccgtgagca cgtacgggga ggacaacctn atcagccttc ttcaat 346

<210> 18863
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-C12
 <400> 18863

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 tcgttcttga ggagcaggag ggcgatggag cggcgcgca ggctcgcgag taccgcggcg 180
 ccggcgagggt gcagcaagat gtacgttccc ggctttgggg agggttcacc ggagcggaag 240
 gcggcgatcc accttcagca cttctttaac tacatcgctg tcagcattgt cctagcacag 300
 cttgagagtt acaataggga agcgtacatg gagttgaagg agttcatcag ccgcaccttc 360
 ctgaatgacg ccgagatttt ctgcgaaaaa ctgatgcgag agtctccaag gctcaaggga 420
 ctagcct 427

[illegible]

<400> 18864

<210>	18865
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<212>	DNA
<213>	Zea mays

<400> 18865

<210>	18866
<211>	418
<212>	DNA
<213>	Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-017-Q1-K1-C5

<400> 18866

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gtgctcccga tcggctgctt ccccatctac ctcacctct acggcacctc caacgccgcc 120
gactacgacc gcgacggctg cctcagcggc tacaacggcc tctcctccta ccacaacgcg 180
ctgctgcggc ggagcctgtc cggcctgcgg aggacgtacc cgcacgcccg gatcatgtac 240
gccgacttct acaccaggt caccacatg atccggggcc ctcacaactt cgggctcaag 300
tacggcctca aggtctgctg cggcgccggc gggcagggcc agtacggcta caacaacaag 360
gcgcggtgcg gcatggccgg ngccagcgcc tgcgccgacc cgggcaacta cctcatct 418

<210> 18867
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C7

<400> 18867

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ggcagtaagt ctagcagtgc tttgtattat gtaaataaggc atttcaaagt tattaattgc 120
tgtcattgca ttatagtatt tgttttgggt gaaaaattta gtcttatctt tgtcagtaga 180
tttcaagttt tgttcgtctt tccaatgttg tatagcattg tgaaaccaga tgggtggcatt 240
gtggaagtat ttggtaagag ttgctattga acttcacgaa tgtaacattg cacattttgt 300
attgaagtac aaacagatgg gatgattatc cttctttatg ttaataaatc tgtatagaaa 360
caaaatttgt cattcaataa tcaatactat tctcagaatt acattttctgt actacaacaa 420
ttatt 425

<210> 18868
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C8

<400> 18868

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gtgaagaata gatagattct ttacatgatg tattaataata tatacactga aatacagggt 120

ggtctatctc tattccatgg caaatttctt cttgaaactt ttcagtaaac atcaagtttc 180

atgcgcagac gtgtctggat gtacaacata gactgggtcc tcttcaatat tagtttgtgt 240

ttgcataaaa aaaaaaatc atcgagaccc tgatgttact gtacat 286

<210> 18869

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C9

<400> 18869

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cccctcatcc taggggctac tacaaatgca gcagtgtgag gggctgtcca gctaggaagc 120

acgtggaacg gtgtgtggat gattcggcga tgctcatcgt gacatacgag ggcgagcaca 180

accacaccgg aatgccagct cagtcagcag cagcagcagc agcacagggtg tagccgtgta 240

gtcgtagaga actcatcatc agttcatcac tgcacccccg cctccccctc cttgaggacg 300

aagtggcacc accaacaatgg cctctgttgg tcaccaggtc gtcgagatgt ctggctctgc 360

ttgcgcccac aagatctgta acgagaatgg aatgtgggtg tacacaagac tttctaattc 420

atttgtgggg gcagctgggt gtcgctcaag attatt 456

<210> 18870

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D1

<400> 18870

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gcggccggcg gcaacaagca gcgcgagggc gcggaggtca tcacgggcgc ggaggcctgc 180

ttcgcgcact ccaagcagat gctgcaggcg ctgggcttcc cgggcggcgt gatgccgctg 240
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 gccccctacg agcactactt cgggggcacg ggcacgcggg tgcgctacga cgccgaggtc 360
 accgcgtacg tggaggacgg ccggatgaag cgcattgaccg gggcgcgcaa caagcaggtc 420
 atgctctgg 429

<210> 18871
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-D11

<400> 18871

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 ccgggctaac gagggagtcg tcgcccttcg agtccccctc tggaaagtac ggcctcgacg 180
 gagagaaggc gtgcgccgag ctctgagct tttccgattc cagtggctct ccacagggtga 240
 ccatttttgt tctgccagac tataagccac ctcttgacgc gtgtgttgta aatgggggtct 300
 tggaactgat ttcttctgaa gctacctnca ctgagcgaac tctaattgtc ccatacatca 360
 caagatcgtc aagctatcat catggaacgg aacatgcaac aaaggcatcg actggtactc 420
 atggtgctga a 431

<210> 18872
 <211> 391
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-D12

<400> 18872

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 gcacccgcga acttggcggg ccgctcggcg ctgcacacca agccgggggat ggccgncgcg 180

cttgcgagct cgccgcttgt tcacctaact acctnccgcc tncgnectncc caggccccag 240
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aaggtcgggt ggagagccct gaggcggcgc gaccggcttc gatgcttctc caacgacggg 360
ggcggcgggg aagaagggga aaagcgtggc g 391

<210> 18873

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D2

<400> 18873

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gaagcagacg gcgaggaagt cgaccggcgg caaggcgccg cggaagcagc tggccaccaa 120
ggcggcgcga aagtcggccc cgcccaccgg cggcgtgaag aagccgcaca ggtttcgccc 180
cggcaccgtc gcgctccgcg agatccgcaa gtaccagaag agcacggagc tgctcatccg 240
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gttccagtcc tccgccgtcg ccgcgtgca tgaggccgtc gaggcgtacc tgggtgggtct 360
cttcgaggac accaacctct gcgccatcca tgccaagagg gtcaccatca tgccta 416

<210> 18874

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D3

<400> 18874

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aggctgatgg cattgtggat tccttgaaga agcaggttgg ccttgcgtcc aaggagatca 120
agtcagcaga aggtgtggcc gccattttg atgacaagaa gatctatatc gttggaatct 180
tcaaagaatt cagtggcact gaatttacia acttcatgga gcttgctgag aagctgaggt 240
ctgattatga ctttggacac actttgcacg caaaccacct tccacgtggg gatgcatctg 300
tgagggggcc attgatcagg ctgctgaagc cttttgatga gcttggtgtt gacagcaagg 360

attttgatgt tgctgctctg gaaaaagtta ttgatgc

397

<210> 18875

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D4

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gcgcgagtac tcgcgcctcg ccaacctgaa gaggcctccc gatctctccg gcatgactga 180

ggccgaccgg ggggaggagg cggagaggct gagggaggag atgttgcaga aggcgcgtca 240

actccaggac cagggggaca tgagcggcgc ccgcgagtct gaaggctctg caccatcat 300

cgacttcgat gtcaagcagg gtggcgaata cctcaacagt atctgctggt gtcggaacat 360

ctacaccttc gaccacacag aggagtcgcc cgttggctcg atgagattta ccaacaga 418

<210> 18876

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D5

<400> 18876

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cattcgctgc atggcttctg gtaacatgca ccacattgtt ggtgctgatg attcttgcac 120

aagctggggt gtcgcccaga atggagagct tggttatggg cctaacgggc agaaatcatc 180

agcaaataccc aaaaagggtg acattcttga gggcatgcat gttacaagtg tcggctgcag 240

atttggactg tctatgattg atgtggacag agcaaatgtt ggtgaccgac ttggtcagct 300

ggaaatttat gatggcgaca ccggcgctga agtcgacaag gtggagggtgc aagtaaccaa 360

gaaggcatct gccagcacca actcacgtgc caacaagcgc aagaaaacca 410

<210> 18877

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D6

<400> 18877

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tccgatcctc tagcgtagct aacatcgcca tggcttgctt caccgtgttc acgaagaccg 120

cgacgcccga cggcaacaag cagcgcgagt actcggacgt catcacctgc acagacgcct 180

gcttctctca ctccaagcag atgctgcacg cgctgggctt cccgggcggc gtgatgccgc 240

tacgggtggct ggaggactgc aactggatgc gcgagaccgc attcgcgtgg atgcggcata 300

agggcctcta cgagcactac ttccgctgca cgggcacgcg ggtgcgctac gactccgaag 360

tcacc 365

<210> 18878

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C10

<400> 18878

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cgactgcttc gtccagggct gcgatggctc ggtgctcctg gacgccgttc cgggggtggc 120

caactccact gagaagctgg cgccggccaa caacaactcg gcgcgggggt tcccggtggt 180

ggacaaaagt aaggcggcgc tggaggacgc ctgccccggc gtcgtctcct gcgccgacat 240

cctcgccctc gccgcagaga tctcggtcga gctgtccgga ggaccaaagt gggcagtgct 300

tcttgggagg ctagacagca agaaggccga cttcaagagc gcggagaacc tgccgtcgcc 360

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<210> 18879

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A3

<400> 18879

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gtgcgcgtgc ctatggtgcc aaacggccaa tacctgcatg gcatcatcaa ctgacttcaa 120
agaccgggct ataggccaaa gactcgatgg acaagggttt cctgttgaat gcgaattg 178

<210> 18880
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A5

<400> 18880

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ggtcaccgcc accggcgagg gcgagtacga gaggtacaag aaggaggaga aggagcacia 180
gcacaagcag cacctcggcg agggcggcgc catcgccgcc ggcgcccttcg cactctacga 240
gaagtgaggt gcgcaccaga tccggcatgt tcctagagac gaagcatgat gaagtagtaa 300
cgatgataga ggagaggata tct 323

<210> 18881
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A6

<400> 18881

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taattgccaa gagctttgag cgtatccaca gaagcaactt ggtggggatg ggaatcattc 120
ctctgtgctt caaagctggg gaggatgctg attcgcttgg cctcactgga catgagcggg 180
acagcatcga tctccctacc aacctcagt agatccgtcc cggccaggat gtgactgtta 240
ctaccgacaa tgggaaatct ttaacttgca tcgttcgctt tgacactgag gtgg 294

<210> 18882
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A8

<400> 18882

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gatgaattgg aggatcatca ttccctgaga tcgactcatc ttgctgattc ctggcaaaaa 120
accagaggtc ggagtgggtc gaatgactac agaagggcat cttttggatc agagagtgat 180
gatgagatca attcttatcc ggacgaggac attgacaaaa gtcctagaaa taatggaagc 240
cgtagtcagg gaagtaccaa cagagcttct gttaggcaca atgcacttgc ctacagtgat 300
gaatgaccca ttttctgatg at 322

<210> 18883

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A9

<400> 18883

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aggattctgc ccagcagcgc ggcgatccgc ctcgatccgg aatggagcgc gtcttctcca 120
tgaggagat cccaacccc tactggggcc cgccgcaccc tcaaccggcg gccggcgggcg 180
ctgttgctgc accaggtgga gtaggaggag cgggggacgc ggcgggcgcg atgaaccggt 240
gcccattctga gtggtacttc gagaagttcc ttgaggaggc cgtgctcgac agtccgggtc 300
ccgtcgccgg cgtgggtaga agcagcggac aagctggagt tgacgcggcg gatagcaagc 360
cgctgggcgc cgcggcgccg gcgtccgtct cgagctcggt cgttgacccc gtcgagtaca 420
acgcgatgct c 431

<210> 18884

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B1

<400> 18884

agttctataa aactcttaag atgtatgctg aaaaagcata accaggtggg aagcattggg 60

gttgcgggtc aagattggaa caaccgggaa acagactgat gtaaggag

108

<210> 18885

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B10

<400> 18885

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ttgactgatg aaatggtcga gttagcacgg caactgaagg aaagtagcct aatgatgaac 120

caatccgtgc aggagacaga gaagatcctt gattctaccg agagggctgt cgagcacagc 180

ctggcaagcg cgggccacgc aacctcgca gccgcggagg tctactcact ggcttccaag 240

actacgtgct tccagtggct gctaattgtt gtgatggcct gcatgtttgt aatggtggtt 300

ctgctcataa ggatcacttg atgaaggatg agggctgtag agggcactca aatcttttgt 360

cacccttgac tttgtttcat agggaattct ttgtgttgat ggtattttct cgaccgagtg 420

tctccaacag 430

<210> 18886

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-017-Q1-K1-B11

<400> 18886

ggagcaggcg atcgagtacg tcaagcaggc ggtccaggag gacaatgccg gcaactacgt 60

caaggcgttc cctctctaca tgaacgcgct cgagtacttc aagacccatc tcaagtacga 120

gaagaacccc aagatcaagg aggccatcac cgccaagtgc accgagtacc tccgccgcgc 180

cgaggagatc cgggccgtcc tcgacgaggc cggcgcgagg ccggggggcca acggaggtga 240

cgcagccgtc gccacgcgcc ccaagaccaa gggcaaggac ggcgacggng gcaacggaag 300

ggatgactcc gagcagtcca agctcaaggc ggggctcaac tctgccatca tcaccgagaa 360

gccaacgtc aagtggaacg acgtttgctg cctcgagagc gccaagcaag ctctgc 416

<210> 18887
 <211> 389
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-B12

<400> 18887

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 ggtacctaga cctagcagca gccacacca caccgtacgt cggcatggct aggtgggtcgt 120
 cgtcagctct ggctgccgtc ctctgtgtcc tggccgcggc ggtggcgtgc tccgcggcgc 180
 gccccgtccc cgcgacagcag cagcaggcgg tagaggacgt gaagcggccg gacacgctgc 240
 acgaggggac ggtgctgac cgggggatgg ggcgctacga gatcggcagc cactacatcc 300
 cggacatcgg cgggctggac cacagcatcc ccgccgncac ccacggccag ttcctccccg 360
 gcgccgacga cacctgggtg cccaacccc 389

<210> 18888
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-B2

<400> 18888

gctggtaggg acctcactga ttccctcatg aagatcctga ctgagagggg ttactctttc 60
 acaaccactg cggagcggga aattgtgctg gacatcaagg aaaagcttgc atatgtcgcg 120
 ctcgactacg aacaagaact cgagaccgcc aagagcagct catcagttga gaagagctat 180
 gaactgcctg atggacaagt gatcacaata ggcgcagagc gcttcagatg cccggaggtt 240
 ctcttccagc catccttcat tggatggaa gctccaggaa tccacgagac gacctacaac 300
 tccatcatga agtgtgacgt tgatatcagg aaggacctgt atggcaacat tgtcctcagt 360
 gggatgatcca ccatgttccc tggcatcgnc gaccgcatga gcaaagagat cactgcgc 418

<210> 18889
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B3

<400> 18889

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tgttccatga tcgatcatca tcgaccagag gactgaactg aagacgttgt caccatcgt 120
gcggccacag gaccccttct tagcaaggta aataaacggt cctgtccgag gcgcttcaag 180
cctagctctc gtaatgttat cgtcatgtat gtaaagtgtt cttatagtga gcctattttg 240
ttgttccaat ccttacgggtg ttccattctg aggtgctgaa cctcggggca acaagaccga 300
agctggtagg gacttcaatt ggagaactgg ggttcaagca tgtagaattt taaaatcggt 360
tcatttgtct ggacaatggt cctgactagt aatgtgatcg c 401

<210> 18890

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B4

<400> 18890

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cactgcatca agttataaat agaagcctct catcaatcat tccaagaaat gtacataacg 120
cagttctaga acgattgctt tctctttcta gggcacaagt ctcagactat atcctgaatg 180
ataaaaaatcc cattgggtcg ttgaaactac caagattgag aagtattctc gattaaagca 240
aaagtcttca tctgcagttc cctgcagagg atcttggtt ccagtaatac cctttacaac 300
caaaatgttc ctcataaaca accttttctt tatttct 337

<210> 18891

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B5

<400> 18891

agaagaaatt ctacatcccc tgtaaaaaag cataaccagg tggtaagcat tgtgtttgct 60
gttgagttat ggatcacacg ggaacagaat gattgaagga agatctgggc accgtgttgg 120

gcggcctaag gaccggcttt tgacaatggt gatcaactgc gccgtcgccg gatcctgagg 180
ccatgactac tacttggacg tggatagctg cagagcggcg gtaccgctgg cgcacagca 240
gtacgtgaac ggctggctcg tccatcttca gaccttgatc gtgttcgagg cgagcatgat 300
ggctgtcaag at 312

<210> 18892
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-017-Q1-K1-B6

<400> 18892

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gtctattcct acaacccttg gccttgatcc aactgttgca aactcagtgc atcaagttat 120
aaatagaagc ctccgatcaa tcattccaag aaatgtgcag aaggcagttc tagaaggatt 180
gttttctctt ggtagggcac aagtctcaga ctatctctg aatgagaaaa atcccattgg 240
gtcgttgaga ctagcaagat tgagaagtat tctcgatgaa ggcaaaagtc ttcagctgca 300
ggtccttggc agaggatctt ggctttcagt aagacccttt acaaccagaa tgttctctcan 360
aaacaacctt ttcttatttc tttcagctta gttgatggga catga 405

<210> 18893
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B7

<400> 18893

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gcgccagct tggcgggtcca tgatcggggg gatcgacagg aggacggagc tgaagccgct 120
gccagccagc ggccggccag aggaccggcg gctgcagggt gtggggcgtc ccgccgccgc 180
cggatccgga ggcatgact actacttga cgtggagagc ggtaacgccg ctgtgccgct 240
ggcgcataag ccgcactgga acgcgaagct cgtccgactt cgcaccttct cagtgttcga 300

ggtgagcatg atggccgcca agatcgcta cgagaacgcc tggtaga

347

<210> 18894

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B8

<400> 18894

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aaccctggga acaacctgta tgtgactggg ttgtcggctc gtgtaacgga tcgagatctg 120

gagaagcact tctccactga ggggtgaggtg attgatgcaa gcgttggtga tgatccttgg 180

acaagggaat cacggggggtt tgggttaggt accatggctg ctgataaaga ttcatatcgc 240

tgcatacatat atatggact 259

<210> 18895

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B9

<400> 18895

gcgcgtttct ctaccccgcc ggctcctcc ctcggtcccc cgactccgcc agccactggg 60

cccgccaggt acaatacccg agacagcggg gtgtacgagg acgagagggg gaacaacgga 120

ttcatcaccg ccaggcgtca ggtcagagtg tgtaagaaa agatgggtggc gaatggcgac 180

gcacctgcta gagggagtgc gacggtagct gcaagcctgc gcaggcgtag gaccacaagc 240

gttgctgctg ctggcagagg tgggtgccagc tcgatgctcc agttctacac cgatgaggct 300

gcgggcccga aaatgtcacc aaacactttt ctgatcatga gcattggggt catagctggt 360

gtcgctatgc tccatgtttt tgggaaactg taccgcacct tcaactaggt tgggtactacc 420

ataaccaaga aaacag 436

<210> 18896

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-017-Q1-K1-A2

<400> 18896

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gggcctggtg tgaacatgtg gttaggggtcc agacatctaa agccagggaa gaaagcgaac 120
cgcaagagaa gtaaaatgat aagacgtggt gtagcctgca aggacgcggc aaatttatct 180
tgtttgagtg agcagctgac gtcaacatcg tccactgcat gctctgaaac cgtagaatgt 240
acctacagcc atcagaaaacg gtcacatgct agtgcaaggt ccaaagatga cgcccagtc 300
ttngaaaaac aggcagaagg tcgacggagc tcgtgtcggg gctggcacia gtgcaccttc 360
ttgcagtgcc ggcgttccaa agtctgatcc gaactctttc acagatccta aggttgtagc 420
gac 423

<210> 18897
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C1

<400> 18897

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tcgatggctg gcctgaccgt gtccacgaag accgcggcgg ccgtcggcaa caagcagcgc 120
gagggcgctg atgtcatcac gggcgcgagg gcctgcttcg cgcactccaa gcagatgctg 180
catgctctgg gcttaccggg cggcgtgatg ccgctgtgga ggctggaaga gtgcggctgg 240
gtacgcgaga ccgggttcgc gtggatgcag ctcaaagccc actacgagca ct 292

<210> 18898
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-G12

<400> 18898

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tgacagtgag aaatcaaata gcttgagtga gacacagttg aagtgtatgg ctgaatccta 120

caagtcactt gaatcaagga aacttgaatt agaaaatgag atagaagtgc taagggtccaa 180
aatagatgct ttaacagctg aactctctga tgaaaggcaa agtcatcagg acgacttagt 240
taaatacaga gatctcgagg agaagatgga aaggatatgag atggagagga gttcaatgct 300
tgtggatggg gaccagaca ccaagtcaaa gcaggataaa gagatagggg ctgcagcaga 360
gaaactggca gagtgccagg agaccatatt gattcttggc cgtcagctgc aagctatgcg 420
t 421

<210> 18899
<211> 350
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-016-Q1-K1-G2
<400> 18899

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cttcgcactc tacgagaagc acgaggcgaa gaaggacccc gagcacgcgc acaggcacaa 120
gatcacggag gaggtcgctg ccgcggcggc cgtcggcgcc ggcggctacg tattccacga 180
gcaccacgag aagaagaagg accacaagga cgcggaggag gccagcggcg agaagaagca 240
ccaccacctc ttcggtgac cgtagtaccg gccggcgcg gaccgagcta gctagctccg 300
gcgcacacaa ccacacacct ggttaattct gtactgcatg cgtgtgtaat 350

<210> 18900
<211> 253
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-016-Q1-K1-G4
<400> 18900

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gttccttgac cttgcaattg ctctgcata gccaccttg ttgcaccaac gccacttttg 120
tagtacctcg gttaattttg cattttcttt cagagttgtt tgtgggtttt gagttccatc 180
tcaagagagt tgagtttatt tatctttata ttgggtgaaa tgttcatatg ctttcctcag 240
cttgatgat ggt 253

<210> 18901
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-G5

 <400> 18901

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 gggggaagat cagaacgaag agagggagat gagggggcaa acgcagacag cttccgcggg 120
 gggccggtgg cgaggcgacg gcgctgcggc gtggtgttgg tggtaggtgg ccgtggtcct 180
 cctgcttggc catttaccga gctgcgcgcg cgcggggctg ctggaatcca acccgggcct 240
 ggcctacaac ttctacgag 259

<210> 18902
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-G6

 <400> 18902

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 acaaagagaa gaaaatcctc tccattcggg ataggggtat tggtagtacc aaggaagatc 120
 ttattaagaa ccttggaacg attgctaaat ctggcacttc aggaacagga gctgctcgag 180
 tctcttgctg aagctgatac gagaaggcag gaaagagcta aaaagatgga agaaaagaaa 240
 gtgtatctgc aactatacga agcaatggag gcgttggtca agatcaatct ggagacgaac 300
 aagatcatgg acttcatcaa gtttgacgtc ggcaacgtgg tcatggtgac tggcgggagg 360
 aacaccgggc gtgtaggagt catcaagaac agggagaagc acaagggcag ctttga 416

<210> 18903
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-G8

 <400> 18903

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gctgtgttct gcgcaccagt acttgatagt gagtttcaga atgaacctat aactatttcc 120
aacatcgaca agaaggatgg tgaaaatttt catgatatgt ataaatgtgt tggcaaggct 180
gtttcgtgtc ctttgttacc ttatgagcat cgtcatctga atacacagag aacggaatct 240
gcaggaaatt tgaaagtctg cacgcttctt gatcatcaaa ctgcaaataa attgacagaa 300
aagagtaatg gtgagctgct 320

<210> 18904
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H1

<400> 18904

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ggcgacttcc gccaggccgg caagttcagg tccttggaaca aggcgtgcat cagggacgcc 120
gcggacacgg tgcctgagag cgagtggcgg ctgtgcacgg cgggcgaagt gcggcagacc 180
aagaccctgc tggccgagct gcccatcgtg gcgtgcaccg tcgtcaccaa caccgtgctg 240
gcgcagctgc agacgttctc ggggcaaaaag ggcaaggcca aggacacgag gctggcgccg 300
t 301

<210> 18905
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H10

<400> 18905

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ctaggacacc cttgaatact aacatatata tgcaccata ttacaacaca ctaacatgct 120
ctctgcatac ttaccttaac ccaaagacat acatacagat atattagtca aattatattc 180
acaactttcc atgttcttac catgtacgtt gcaattcaag catgtctttc actctatgcc 240
attggactta ctactattat tgttctcgac tctggtgata gtgtgagtca cactgtaccc 300

atttattaaa gatattccct ttccca

326

<210> 18906

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H12

<400> 18906

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ttgaccagac gctcgtgcta gaaagattca tcgtttcctg atccaacctt ttcattgtgc 120

ttaagatttc acaggtgctc cagggaaata tggtgagctg aaagaaagt tcaagagttt 180

tcaaggtggt ttggatggca agtatgatga cctccctgat cagtcattct acatgggttg 240

<210> 18907

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H4

<400> 18907

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tgtcgaaggg caggaagaag atcgtcaagc ggggctccct caacaccttc tacgccaagg 120

agtaccgggc cacgctcgag ttctactggg cgccttctct cgtcgagtcc aactctgaca 180

accccaactt ccacagcatc aaggaacgga tcatcagtcc cgagaggatc gaggcgcacg 240

ccaagaactg gaaggacgtt gattacctca tcttcgacac ctacatctgg tggatgaaca 300

ccgtcgacat caaagtcagg agaccgaact cgaatgattg gtctgagaac gacgaggttc 360

ccaggattga agcgtatggt cgggtgttca agacggggtc tgattggctc aataacaaca 420

tc 422

<210> 18908

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H6

<400> 18908

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aggctgctca acttcatect caccgtcgcc ggctcgcta tggttggcta cgggatctac 180
ctgctcgctg agtggatgaa gatatccgaa gacggcatcg gcggggcatc gacggcgga 240
gtgctcgctc ccggccggcc gttgttgggg gctatcgctc tcggtgacag cttcctcgac 300
aatctacca aagcatgggt tatttatttg gttattgta ttggcaccat cgtcttcttc 360
gtgtctctgg ttggctgca 379

<210> 18909

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H7

<400> 18909

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gggccgtcaa gggaccataa aaaaggaggt tctaaattgg atgctaagct aattggacta 120
acctttctga ataaatgtga tggccggata gaaaattgga tcaccaaag gtgatgtgtg 180
tggaattaat gga 193

<210> 18910

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H9

<400> 18910

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gagcgggtgg aggaggagcg cggcggcgcg ggtcgcttgg cgcccgcca cggtttgcct 120
gtggctcgcg ctgcgcgccc ccgcactgac gtcgcccag gctaagaagg acctgacgga 180
ggttaccac aaggtctact tcgacatcga gatcgacggc aagcccgcat gccggattgt 240
catggggctt tttgggaaga ctgttctaa gacggcagag aacttccgag ctctttgcac 300

aggagagaaa ggggttggca agagtggcaa agccctccac tacaagggga ggaagttcca 360
cagaatcatc ccagcttca tgctccaagg aggtgacttc actctcgggg acgggagggg 420

<210> 18911
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A1

<400> 18911

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tttgtgaggt atcctgttgt gaacatgtgg ttagggcca gacatctaaa gccaggggaag 120
aaagcgaacc gcaagaaagt aaaatgataa gacgtgttgt agcctgcaag gacgcggcaa 180
atztatcttg tttgagttag cagctgacgt caacatcgtc cactgcatgc tctgaaaccg 240
tagaatgtac ctccagccat cagaaacggg cacatgctag tgcaagggtcc aaagatgacg 300
cccagtcctc gcaaaacaag cagaaggctg acggagctcg tgtcgggtgct ggcacaagtg 360
caccttcttg cagtgccggc gttccaaagt ctgatccgaa c 401

<210> 18912
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A10

<400> 18912

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ttgtcggcgt ctctgaggag accaccacgg gtgtcaagag gctctaccag atgcaggaga 120
ccggcgccct cctcttccct gccattaacg tcaacgattc cgtcaccaag agcaagtttg 180
acaacctgta tggttgccgc cactcgctcc ctgatggtct gatgagggcc actgacgtta 240
tgatcgccgg taaggttgct gtggtctgcg gatacgggtga tgtcggcaag ggttgtgctg 300
ctgccctcaa gcaagctggg gcccggtgtca ttgtgaccga gatcgacccc atctgtgccc 360
tccaggctct gatggaaggc ctttaagtcc ttcccttggg ggacgttgct tctgaagctg 420
acatcttcgt 430

<210> 18913
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A11

<400> 18913

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 actcgacgga gctgttcccc aagatcttcc ccgagcagta caagagcatc gagaccgtcg 180
 agggcgacgg caagtgggcc ggcaccgtcc gcctcctcaa gtacaccgag gcggtgccga 240
 tgctgacgtt cgccaaggag aagcttgaga cggcggacga cgagaacaag gtggtgtcgt 300
 acagcgtggt ggacggcgag ctggcggact tctacaagaa cttcaagatc acgcttaaag 360
 tgacttcggc caaagccgga ggcgaaggcg gcgccgtcgt cagctggg 408

<210> 18914
 <211> 366
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-A12

<400> 18914

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 gttcccaatc gagacatcct aggatggaat gtgacacact gggattcacg accttgatc 120
 tcctgaatga gttccaaagc cagaggtctt agacatcttg tataaggaca cattatgttt 180
 tcaccgtgct attgaacatc atgatggcat catgcatcaa acagaaatgt aagccccaga 240
 cagtgttcat caaaggagat cctccagatt atcaaataca tgttgcatct gctgtcagct 300
 gtcgcttaac ttgtctatat actanggtcg atccatgaca tgacatgagg ttactcatct 360
 gggatc 366

<210> 18915
 <211> 401
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-G11

<400> 18915

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ggtgccattc cgcccaccga tcgaccttga cgccaatctc ggtctcttgc aaaagcgtta 120

cacgcggttg tttgacagga gaggacgaag atgacggatt gcctctctct ctcacatcgt 180

gcagctcgcc atccaagtcg gcaacgcgag ctgggaactc tactgcctcg agcacagcat 240

gcagcctgat ggccaagagc ctggagataa caccgacaga catcacgatg atgccttcag 300

caccttcttc agccagactg gtgctgggaa gcacgttccc cgtgcaatct gagctgatct 360

agaaccact gcgatcgatg aggtacgcac tgacacgtac c 401

<210> 18916

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E5

<400> 18916

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tttgatcggg ggtaatgtgg tgacaattgc acaggcccag aatttgattc aagctggtgt 120

ggatggattg cgtgttgga tgggatcggg ctcaatttgc accacccaag aggtttgtgc 180

tgttggaaga ggacaggcaa cagcagtgtg taaggtttca tcttatgcca aggatcacia 240

tgtaccggtt attggctgat ggtgggaatt tcaaaactct gggcattatt gt 292

<210> 18917

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E6

<400> 18917

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cactattcag ctctggaagg acggagagtg gaaagcagaa gtaataggtg gtcacaaaagc 120

ttggcttgtg atggatgagg tcagagaaat gatccagaag aacaagtgac ttagcaccca 180
 tgttatgcaa tggccaatgg atattgtacc gtgttcaatg taaatagaga tatcagacga 240
 tctcttcata tactaagctg aaatcaaaca caaatagagc aaccatgttg gaaataacca 300
 accaaataat actgctccct actccctacg ttcaattctc tttgtatatg tatgttggaa 360
 caagatggat ttttatgcc a gcacaaggaa acaaggagca cattcatatt cagttacgca 420
 acta 424

<210> 18918

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E8

<400> 18918

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 ggggcccatac ggctgcgtcc ccgcgagagct ggcgctgcac agcctcgacg gcacctgcga 180
 cgccgagctg cagcgcgccg ccgagatgta caaccgcggtg ctcatggcgc tgctggagga 240
 gctcaacgcg cgccacggcg gcgggcgaccc cgtgttcgtc ggcgtcaaca tgcagcgcat 300
 ccacaacgac ttcacgacg accccaaggc gtacggcttc cagaccgcca cctacgcgtg 360
 ctgcgggccag ggccgcttca acggcatggg gctctgcacc atgggtgtcca gcctctgcgc 420
 cgaccgcgac acctacgtgt tctgggacgc 450

<210> 18919

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E9

<400> 18919

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 gtcccagagc tttgttggat cgcgaggaat cactggaaa ttttgcaatt gtagtagaga 120
 actgtatcgt ccgacgaagg tgcattggtg tggccatggg tcacggcagg gaacagagac 180

<211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-F11

 <400> 18922

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 gagtccaaag acaacggcgt gccgctgctg ggcttgcttc tgaaggacag aagccggcac 180
 agcgagtctg agatcttaga cttgctgcgc cgattcggat ggatcgtgcc aggctacacg 240
 aagccccccg acgcgcatca cgtgaccgtg ctccgactat tcatccgcga ggacttcagc 300
 cgcacactca cggagcgcct ggtgctagac atcgagaagg tgctgcacga gctagacgcg 360
 ctgcacgccc 370

<210> 18923
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-F12

 <400> 18923

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 cgccgtacgg tctaccacc gctgtgcta ataattggcg gctagctagc tagctagctg 120
 cagctgctgc gatcctggat cggcacagcc ggttcttgat gtggagggag cggcggcgga 180
 cgctgctcct gctggtggcc ggcgcggcgc tgggactgat cggtgccacg ctgcgcgagcg 240
 cgccaccgga ggccgagctg aaggctcgggt tctaccatgc gacgtgcccc atcgcggtag 300
 acgtggteet cgcccagatg aggetcatcc tcatggagga cgccacggtc gagccgtccc 360
 tgctccggat gcactaccac gactgct 387

<210> 18924
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-F2

<400> 18924

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tgccagatcc ccaagtgggt ttcgcctgcc gcgcaggacc ttctcaagag gatcctccaa 180

ccgaatccga tgaagaggat caacgtcgcg gggatcaggg agcacgagtg gttcaagaag 240

gactacgtgc ctgctgttcc gcacgatgat gacgaagacg tccttcctag tccagctccc 300

tcgataaagg agccaatcga tgagccggcg caggacaagt gtactcctat caacgctttt 360

cagttgatcg ggatggcctc ttcctttgat ctttctgggt tcttcgaaga aaaggattca 420

gcgcaaagaa aggattcgggt cact 444

<210> 18925

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-F3

<400> 18925

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cctttaccag taccctaaatc accttcagag tcgtggcttt ctgcgacttt gccatccgtg 120

acaaataggt cacctctgcc atcttttctt ggaattcaag tacactcaaa gaaacaggct 180

ccctgggtca taacgcaacc aaaggagaat gatcataaac cttccaggcc acaacagata 240

agaattgc 248

<210> 18926

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-F4

<400> 18926

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atatcagaat gctggctcct tcagtgttaa gagaaggctg gacgacgacg tggtattcaa 120

gaatcaagca cgaggagaga ccaagacacc gaaacggttc atcaccgaca ccatcaggag 180

tgatttcaac ggtaaatttc ttcaaaggtc catgaagtga cccttccgtc gttcacaatt 240
cagcctgaag cccctaatacg ttataagggtt ggcgtataac cgaagaatca ttattggggtt 300
gcggaatgaa acaagagggt aaccctatgc aaactactta ccaaagtttt gcttaacaat 360
gcatatcct 369

<210> 18927
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-F6

<400> 18927

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ttctaagcct cgaccccggg aatgtcttgg tcattctcaa atgggctacg atgtcgctgc 120
tacgccaaag catagggtcta agactcgacc ctgggtgcgg atttttagcat ccccttttta 180
gtttcaatag tgtattgttg ttgtccctca agtggtgttt attatttact ttgtttgttg 240
cagctgtcgg ccttccagtt gttcaaaagc aacaccagct tcatgtcacc ctattgttgt 300
gtaat 305

<210> 18928
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-F7

<400> 18928

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agatggatct tcaaattggga accagcaacc ggtgcataag gaaatacgag atgagaccac 180
accacttctt ccagtcaagg tggaggagga cgaggggttt catgagttca atggagcttc 240
attctctggg gcagttttca atctgtcgac caccatagtt ggggctggaa ttatggctct 300
tccagcaggt atcaggatgc tgggcatcat cccggggatt ctgttgatca tccttgtggc 360
actgctcaca gagg 374

<210> 18929
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-G1

<400> 18929

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cctcatgaag ctgatgatga gcgactacaa ggtggatatt gtgaacgatg ggatgcagga 120
gttctttgtt gaatttcgtg ggcctaacga aagcatttat caaggaggta tatggagggt 180
tagagtagaa ctgccagatg cgtatcctta caaatcccca tcgattgggt tcatcaataa 240
gatatatcac ccaaattgtc atgaaatgtc tggttcagtc tgtttggatg tcatcaacca 300
gacatggacc ccaatggt 318

<210> 18930
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-016-Q1-K1-G10

<400> 18930

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aaagcgaaag gagcatgtaa ttaattgtga tcgaacagat tcagatctgt ttctgttttc 120
tctaccacca ccacctcttc caccttcatt accccaatt gaaagagcta ttgcaaattcc 180
cattgctcca ccagaaaagc gatatagtcc ttcaccaaag acaagtagct ctacttctgc 240
cacatcattc tctattgcat ctgttcagca atatacaaat agcttcagag aggacaatgt 300
gatcagagag agtcgattag gaaaggctta cct 333

<210> 18931
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C3

<400> 18931

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cctcctcggc cgtcgggatg aagccgcgga ggttcggcta cggctacggc tacggctacg 120
gctacggccg ggtcaggcgc gcggcggcgc tgctgctgct gctgctctgc ctctgcctca 180
gcagcctggt cctcctgctt ctccatggct cctccacgcc gctggagccc gcggcggcgg 240
cggcggaagc .aag 253

<210> 18932
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C5

<400> 18932

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tggcctggat tcccttttgc ttggtaggat ttgaacatat acggggaact gagagattca 120
attgccagag gctgcatata cagaaatccg attttttgat ctctttgatg gttcaaaaaca 180
ctctgctgta tgtatacaac aagtaggcaa ttagcgcatt cttttggaag ctgtaacaac 240
tactactcgc cagccgatgt tgatgcaacc tcttgtaaaa gtaatcctgt agaaccgaac 300
cgtgtagggg agtcccatag gtagttgggg gctgtccaaa aaccgacggg cttttcctct 360
tccttgaaa 369

<210> 18933
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C7

<400> 18933

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gcgtacgtca acggacgtcg aaccatcgc ccatgggagg agggcacgag gagcaggagg 120
gtggcggcgc aaaggccggg ggtactcct ccggtctccc gccgtcggag ccgccgcacc 180
tgcagggccca gccgccgag gagtaccggt acggcacgtt ccagggccct cggcacctc 240
cgggtggggtt cccgcagcct gcccggcctc ccgggttcgg cggcggcggc gggtacaaca 300

accagaacca g

311

<210> 18934
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D10

<400> 18934

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agtcttcaag aagtgtggac ccttcgcctg cttgagttat gacaagatct gatcctccac 180
ctgttaagat gatgtcacag agagctcacc atccagcttc catgggtgtcg cagaaagttg 240
atcctccgtt tccgaaggca ttacataagg aaaccggatc tgttgttcgc ctaccactag 300
ctacgctggc tactgttctt caaaa 325

<210> 18935
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D12

<400> 18935

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cttgcccccg cgcagtcacc ctatgaaggt ggagttttca agcttgaact attcttgcct 180
gaggaatatc caatggctgc cccaaaagtt agatttctga ccaaaattta ccataccta 240
attgacaagc ttggtaggat atgcctcgac attcttaagg acaaatggag ccagctctt 300
cagatacgta cagttctact gagcattcat gcacttc 337

<210> 18936
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D2

<400> 18936

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atTTTTgctg gacaaaaacg gtttccccac tttcgtagt ggcgttccac ctgatgcatt 180
tagtgaaacg ggtcaactat ggaacagtcc attgtacgac tggaaagcta tggaagcaga 240
tggtTTTTca tgggtggataa agaggattaa acgtgccctt gatttgtatg atgaattccg 300
tattgaccat tttcggggac ttgcggggtt ttgggcagtc ctttctgatg caaaagtagc 360
actggttgga agctggaagg cttgaccaag gaatagcttt tt 402

<210> 18937

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D4

<400> 18937

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tgcgcgcggt ggtggccgag cacaaggagg agctgaaccg gctcaatgac taccttcaag 120
gaagcttcta agaccgggtt ttccacgacc aacaaccctt cgaatccggc aggcaatgga 180
attccgcttt tgaaatccat tacttggaac caagattatg accaaataag gcctgggtttt 240
ttgggacaaat gatggtaagt tcggcaaggt ttgcctttct cttttttttt ttctactgcg 300
tggtctatgg gtatattgcc aaaggcatgc gtgagccatg cgcccggggc tgcgctgggg 360
c 361

<210> 18938

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D5

<400> 18938

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ctccggcatc atcagtaaca aatggctgac ggtgaggaca ttcagccctt tgtttgtgac 120

aatggaactg gcatgggtcaa ggctgggtttt gctgggtgacg atgcgccaag ggctgttttc 180
ccaagcattg tccgacgccc ccgtcacact ggtgtgatgg ttggcatggg gcagaaggat 240
gcgtatgttg gtgacgaggg ccagtcacaga aggggtatcc tgactttgaa gtaccc 296

<210> 18939

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D6

<400> 18939

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ggggcggcct ggcgcccttg agggcggcgc gcgccgtgaa ggagacgacg gggatcgtgg 120
gccttgaggt ggtgcctaac gcgcgagagg ttctggtagg gctctacgag cgcacgtca 180
aagagatcaa ggccgtcccc gaagacgagg gttaccgcaa ggctcgtgaa tcctttcacc 240
gggcaccgtc ttcagatctg ccaggaggag gaggactgga agcgcacgca ggaccgaatc 300
ggatgcgggc aggtcgagga gctcatcgag gaggccgagg acgagctcaa gctcatcgct 360
aaaatgattg aatgggatcc atgggggtgtt cccgatgact acgaatgtga agtgattgaa 420
gacgacaccc c 431

<210> 18940

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D7

<400> 18940

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tggaacaat ggactacctt gacaacttga aggcaaagga gcgtttcacg gagcaaggcg 120
atgctattgt ttttgaatca gaagttgata aagtttatct tgccgcaccc tctaaaattg 180
ccatcattga tcatgagagg aaaggacat ttgtcgtgac aaaagaaggc cttcctgatg 240
ctgttgtttg gaacccttgg gacagaaggg aaaagcaatg caagattttg gggaatccga 300
atacaagaac ctgccgtgtg tggaacctgc aacttgtgaa aagcctatta ctttgaaacc 360

tggggaaaaa tggaaa

376

<210> 18941

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D8

<400> 18941

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ccatccggtc ggcgctgatg acgacggcgt acaacgagta ccccggcggc ggcaacggca 120

tcctggacgt ggccacgggg cgcccgccca cgccgctgga cgtgggcgcc ggccacgtcg 180

accccgcgaa ggccgtcgac cgggggctgg tgtacgacat cgcggcggca gactacgtgg 240

actttctctg cgccaacaac tacgaggcgg cgcagatcgc ggggctcacc aagcagcacg 300

<210> 18942

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D9

<400> 18942

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cggcgagggg atcggcggtt gaagagatgg aggagcggga gaagctcgcg tgcttgccca 120

agcttgccga gcaggcggag cggtagcact atatggtgga attcatgaag aatcttgcta 180

ggatggacgt ggatatgagt gctgaagaaa ggcatttgtt ctcagctggt ttcaagaaca 240

ctattggagc acagagagca tcatggagaa tcatttggtt acatgaccaa aaggtcgcag 300

ctgatcggca gactggtgtg atgatatagtg cctataagaa gaaagt 346

<210> 18943

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E10

<400> 18943

cagcgcccca cccccagcca gctagtgggtg ttctctcagc agcgcgcccg agcgtgtggt 60
 ccctgctaag ctctgcgcct cggtaggcaa ggaaaatcaa acagatcgta aatggccggt 120
 agcagcgcgg agcagctcct ctccaggatc gccgcggcg atggccacgg cgagaactcg 180
 tcctacttcg acgggtggaa ggcctacgac acgaaccctt tcgacctgcy ccacaaccgc 240
 gacagcgta tccagatggg actcgccgag aaccaactgt cgctggacct gatcgagcaa 300
 tggagcgtgg accacccgga ggcgtccatc tgcacggcgc atggcgcgcc gcagttcc 358

<210> 18944

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E11

<400> 18944

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 ggattcataa ggagctcaag gatctgcaa aggacctcc cacctagtgc agtgcaggtc 120
 ctgttggtga agacatgttc cactggctag caacaataat ggtccatct gatagcccat 180
 attctgggtg agctttccta gttacaatcc attttcctcc tgattatcct ttcaaaccac 240
 caaagggtggc atttcgcact aacgtgttcc atccaaacat caacagcaac gggagcattt 300
 gcctcgacat cttgaaggac cagtggagtc cggcactaac catctccaaa gtgctgctgt 360
 ccatctgttc cctgctgact gatccgaacc ccgacgacct tttggtcccc gagatagctc 420
 aca 423

<210> 18945

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E12

<400> 18945

actacgtgat cggctcggct gccgaccga tgacacacgg gtacctaaac gcgctaagcg 60
 ccaaggccgg cgtctcagc ggtcgcgctc gagtaccgcc tcgcgccgga gcacccgctc 120
 ccggacgcct acaaggactc atgggagggg ctcaagtggg tggacaccca cgcctccgcc 180

gccacgggag gaggaccggc cgccgagccg tggctaacc agcacggcga cttatccccg 240
 gtgttcctgg ccggggccag cgctggggcc accatcgcg acttcgtagc cgtacgtgcc 300
 ggcgagcaca agagcggagg cctcgggatg cggatcaagg gcctcctgat agtgcacccc 360
 tacttcagcg gctgcggaga catcggatac gaggggacga ctgggaatgc gcgca 415

<210> 18946

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E2

<400> 18946

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 gactataact gttcgtcgag cattaaaatt aaggacgaca agacaggcac aacctatact 120
 gtcgaatcac atgacatata ctccggatgg aaattccact ggcacaagtc cctgggttctg 180
 ttgttggtta caatgggtgtg gagctattta tagtacgcta actctattgg acaacacgaa 240
 cacgcactta ccgaaattca tttgattcgt attcttttca caaaaaagaa tatctaaggt 300
 tttaacttgt gttctctgac cacggaaaac gatgaaaaca aaaacgttgt gtgccatac 359

<210> 18947

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E3

<400> 18947

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 ccgacctgcy caccgacggg atccctacct atccggccgt caccctccc cctgcccctc 120
 ccgagttgga ttgttcgcgg aattggcgga ggggcagccg gatatgtcgt cgtcggttgg 180
 gggcggcagc gcgggcggcg gcggagtgga catggtcagc ctgctggaga aggccaagga 240
 gttggaccag ctaatgaatg aacaggacga aatcgttgcc gatatcaaca agattcac 298

<210> 18948

<211> 384

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C2

<400> 18948

gctgctagtg tgctgctccct gatgaccacc acggaatcca taattgtaga gatccccgag 60
 gaagaggcac cggctccagc aatgggtggc atgggtggaa tggattacta agtgtcaagc 120
 acacccacga tacaacaaca tcaaagcaga gatgacgagg tggttgtcag gaggatacaa 180
 ttttgaggct gcggacgtag gacctctcaa tatctccaag caatagtggg gggataataa 240
 acatgagcag tagttgtttg agatctgatg ctgtagatca agattggatt ctgacacctt 300
 gtgctgaacc aactgtaatc tgattattac acattttttg gcaaaagtaa atcggattgc 360
 ccttctgttt tgcggttttt gccc 384

<210> 18949
 <211> 116
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A2

<400> 18949

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 gacggagggtg ccagcggaag tcccggcggc ccatgtggca cgagcgcca aggcga 116

<210> 18950
 <211> 133
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A3

<400> 18950

agctgattga agatattttt gttcaatctg atcatgcagt tgctgctgac aacctacggg 60
 agcaagtgag agattgtgga attaccatgg agaccactta actgatagtt gatgagaacc 120
 accgatctt ggt 133

<210> 18951
 <211> 246

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-A4

 <400> 18951

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 attgttatct catgatgtc ggcggtggtg attccttcca ttaagaccgt tctatagtgg 120
 tgaaattgtg gccttgaaga caggccaaga cggggaaaag ctcaagtctt gtaggggtccc 180
 tggatatgta agaaccttag ctgggcaagc actttacaga atttcagtgg agacagggttc 240
 tggcga 246

<210> 18952
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-A7

 <400> 18952

 ccagccgccg tcatgtcgaa gcgaggtagg ggaggttcgg ctgggaacaa gttgggcgtg 60
 tctactgggtc taccggtggc ggccacggtg aactgcgcgg acaacacggg cgccaagaac 120
 ctctacatca tctccgtcaa gggcatcaag ggccgcctca accgcctccc gtccgcctgt 180
 gtcggcgaca tggatcatgg caccgtaaag aagggaagc cggacctcag gaagaaagt 240
 atgcccgccg tcatcgctcg gcagcgcaag ccgtggcgct gcaaggacgg tgtctacatg 300
 tacttcgaag ataatgctgg agtgattgtg aatcccaaag gtgagatgaa aggttctgca 360
 atcact 366

<210> 18953
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-A8

 <400> 18953

 ctgcagccaa ctcgctccct cggaccaacg cgaggccaaa accaatctca catctcctcc 60
 ccctcccacc agcgaggacc cttccccaag aactgctccg agtcctggag cgggagagag 120

<223> Clone ID: LIB3062-016-Q1-K1-B10

<400> 18956

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gactgacata ggcgtggcgt acgtggcgga cgacgacatg aacgcggaca agacggagtg 120
cgcggaaccag ctggtgggcc tggcgccgtg cctgcagtac gtgcatgggc acgcccacgc 180
gccgccggcc aactgctgcc gcgggctgcg ccaggcgctg aggaagagca ccaagtggat 240
gtccgtgctc gtgaaggaca aggacaaccc caacctgggc atcaacatca acgccaccct 300
cttgctcgcg ctgagcaacc tctgcagcac caccctggcc aacgactt 348

<210> 18957

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-016-Q1-K1-B11

<400> 18957

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ccaagagtta cagagacaac ttgcacttga cagagaagaa gcagacaaaa tacaggatga 120
tcgcgataat ttcttaaate tagcacttca aggctaacaa cgttccattg ntgttggtgg 180
caaatatgac ctacaagtgg gtttttcggg tgtctcagtg tgatttagtc ttttctcaag 240
gcatcaagtt gtgaaagcaa tgttgaaaac cacaaaaaga cgtcccaaaa ctacaaatgt 300
cataccac 308

<210> 18958

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-B12

<400> 18958

agggtcatg ggcgtacgca tttgcggtac gcgtgggcgg actcgtgtat cgagcccggg 60
caaacattgg cggacgcaga gccggctgca gagcggagat ggcggagaag aagcgaagcg 120

ccggcactct caaggatgag gtggtgacac gcgagtacac catcaacctg cacaaacgcc 180
tccacagatg ctccctcaag aagaatgcac caaatgccat caaggagatc aggaagtctg 240
ctcataaagc catgggtact actgatgtcc ggattgacgt gaagctcaac tagcacatct 300
ggagcagtgg tattctcagt gtgccgaggc gtgtccgcgt cagaattgcc cgcattccgga 360
acgatgagga tgacgcgatg gaggaactct actccctggt cacagttgct g 411

<210> 18959
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-B3

<400> 18959

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cagcattgat gccgattgcc aatggccggt gtttgatgag gtcagcctca agccttgccg 120
ctcactggca ccacaagctc ctctgtggcg cgcggagtcg gatgccgcgg ggggtggtgc 180
cggcgccggc gatgtcatgg gcctcctcct ccgggagcgc atagtcttcc tcggcaacga 240
gatcgaggac ttctctgcgg acgccgtcgt aagccagctc cttctacttg acgccatcga 300
cccggactct gaca 314

<210> 18960
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-B4

<400> 18960

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ctctttgttg aagtggaatg atttgtggga gactgagttc tgggacaaag ttgaagggtg 120
cctcatgatt catgaacgag ccaagggcat taggtaatc ggtagctttt gacaacttga 180
ttaagagatt tttatccttc ttggccgata gttagtctta attgtttcgt ggatcattaa 240
ggacgatcaa attttcgtgc ttaaagtcag ctcagacctg ctagcctgct ctgttggtga 300
gattctcatc atcggttcct tgtatatttt tgcattattg agttttggat gctagcaatt 360

gcgactggct tctcctatta ctatctgaag cttcgaactt ggaagataac tctctcggcc 420
ttagcggttt ggtgctgact 440

<210> 18961
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-B5

<400> 18961

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ctccttacgg ggcatactct cgggccactt cccagttcc aacggttgat ggtcagatgt 120
ttggcgcaca gcattaccag tatccaacca cgtattttca gcctcctaca ccaattcctt 180
ctaccactca aagcaacctc cagtcttcca acaatcctga aaagccagca gctaaagcag 240
atcctgccaa ggcaaccggt aatgggtgttc caaatggtac tggtcacact cacagttaca 300
gtggaactgt accaagccaa cagagttcag cactgacgcc tgatggaac 349

<210> 18962
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-016-Q1-K1-B6

<400> 18962

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agtggacaaa aacggcgaag tggagaacca ttcattattc atcctgttga agttgctcgt 120
attcttggag agcatgaact tgactgggaa tccatcgctg ctggtttatt gcatgacact 180
gttgaagata cgaatgtggt tacttttgaa agaatagaaa atgagttagg gccaaactgtg 240
cgacgtattg ttgaagggga gacaaaggtg tctaagttgg ggaaacttca gtgtaaaagt 300
gagggtagca cnaaacaaga tattaaagca gatgacctaa ggcagatgtt tcttgccatg 360
acagaagagg ttcgtgtgat tattgtcaaa ctggcataca ggttggataa catgcgcact 420
ctcac 425

<210> 18963
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-B7

 <400> 18963

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 gtattcgata aacgaagcag cagaattgtt cgaggaagct agaactgttc tggaacaaga 120
 atacgggcca taccatccgg atactttagg agtctacagt aatcttgctg gaacttatga 180
 cgcgatggga aggctggatg aggccatcga gatcttgga tatgtggttg gaatgcgcga 240
 ggagaagcta ggtacggcaa acccagacgt tgacgacgag aagcggaagc ttggggagct 300
 attgaaggag gctggccgtg tgcgaagcag aaaggcgaaa tccctggaga atctgctcga 360
 gaccaaccgg tatatcgcca ccaaagaaa tggccgtgct gcatgagtca ctgtcctcag 420
 atgacac 427

<210> 18964
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-B9

 <400> 18964

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 cccctcccac cggtgaggcc gctcctcac ggcagcgagc cagcgactcc tctcttcgtc 120
 tcctacaagt agccagacac cactccgact ttgccggcaa cccgtcgaca gcgacgaggc 180
 gcagcataag gcatacgggc acggcggcca tggcgaccag ctccaaacct gccgcgccc 240
 tggaccccat ggtcgtgctc gccacgagt tccccgaggt gtcattcgac tacgacgaga 300
 gggatgtagc gttgtacgcg ctgc 324

<210> 18965
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-C1

<400> 18965

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ggaaaacttt gttcaacaag gatttgatat gaaccttgct ttctgcaatc aagagaagca 120

gagaaatgag gagagttcgg tggagtcac cacaatggaga aacatcaagc agcatgtgct 180

accttatggt tcttcgaggc cactcacacg aaagctttca tttgatgcct gctcaagtga 240

atcaaggggc acagaaccct caacaagtat gtcaacagag aacacacctg tgtccatcaa 300

cgteccaaag ttggcagagg gcattgaatt tgggaagcaa ccaatgggtca catccttcac 360

tttgggt 366

<210> 18966

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C11

<400> 18966

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acacgacatg gattattgta actggccaag tacatctaaa ctcaagcgta attagacacg 120

gtcatcctca tcttggtaca tcttgaggat ctgcgcgcac ctaggaaggc caacgtcctt 180

ctggaacccc agagcatttg ccaaacgaac gtagcatgca acaccgttgc tgctggtaag 240

gaagacgggg gccctgtcac gaccagccac aacattggca cacccttgt ccgggctgct 300

cacaaggacg gactcgcata gctcatgctc atgctcatca atgacaagga tgtcgtaggt 360

gccgatgcgg tcagtatgcc catcgaagct gcatgta 397

<210> 18967

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A12

<400> 18967

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atggcctcgt cggacggctc tgccgcgggc ctgccagcg ctaccgtcga tgtgcccggc 120

gccggggccc ctgtcctcgt cgagggcgcg ccggggctcc ccgaggctga cttcaggaac 180
gcggtggagt cgtcgctggt caagcagtgg ctgcggaacc tgcagtcgga gaagggcgtc 240
ctcacctacg ggaggctgag cctgacgcgg gttctcatcc agggcgttga catgttcggg 300
aaacgggtgg gctttctcaa gttcaaggct gatatcgtgg acgaggaaac caaaaccaag 360
gaattgtctt tgcaagaggg cccgcagttg ctgtgttgat tcttttggag tcgaatggag 420
aa 422

<210> 18968
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C12

<400> 18968

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caggttgagc ggggacgccg tggagggggcg agggggagcc agattgagcc atggcctcct 120
actgggttct tgccctgggt cttgcgctgt cggcaggcgc aagcctggcg cgtggctcct 180
agccgtggtg gaacgagacg caagtgtacg ccaccaccgc caactgcggt ggcggcaaca 240
gcgtcttcgt cagcctcacg ctcattcagt cggcggcggc caatggagcg gtgtgcttgg 300
atggaagctt accaggttac caccttcaca g 331

<210> 18969
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-G4

<400> 18969

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cgacatcacc gtcaacgagg cccagtcccg cggcggccgt ggaggcggcg gcggcggcgg 120
gtacggtggt ggccgtggag gcggcggtta cggcgggtgg gggcgccgtg atggcggcgg 180
cggctacggc ggtggcggcg gctacgggtg tggcggcggc ggctacagtg gtggtggcgg 240
cggctacggc ggtggcaacc gtggcggcgg ctacggcaac tccgacggga actggaggaa 300

ctgagcgggtg gggcccgcg c ggtcaagtta tcctgttcgc taccgtgttg tttaccctag 360
tccagagtgt ttatctttcg tcgtctcgtg ttttgtgttg cccatctgtg tttttgat 418

<210> 18970
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-G5

<400> 18970

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ggccgtgcac gcgacggcct tcaaggtgtt cttcatcttc aacgccgtcg cgctgttcac 180
gtcgctggcg gtggtggtgg tccagataac gctggtccgg ggcgagacca aagcgg 236

<210> 18971
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-G6

<400> 18971

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catcagcatg ggaggcgatg ccttggcatt cccaatacta agaatttcaa tgaaattaca 120
tccatcgagg aggcgaaagc gctctgggag aaaattcaag cacgacaagg ggtgaacaag 180
tggcggccag acctagaaga agagtatgaa gatcaggaag gcaacatcta caacaagaag 240
acctacactg acctgcagcg tcaaggcctg atctagggct cctgctggtt aaagttgtcg 300
ggatttggtc agaacttata tcatgtagtt gtaactctga aaatattggc ccatctggca 360
tacattttat gtaataagat gattttccgg aactcgtgct tttcctggtt ggcattgggt 419

<210> 18972
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-G7

[illegible]

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<210> 18977
<211> 271
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-015-Q1-K1-H2

<400> 18977

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cgtatggccc ctattaaggg gcgccaagct ccgggggaaa agcaagacgg acctgcaggc 120
gcagttcaag gagctgaagt ctgagctctc cctcctccgc gtagccaagg tcaccggcgg 180
ggcacccaac aggttttcca gatcaaagtg gtgcgcacct ctattgcgcg cgtgctcaca 240
gtgatctcgc acaaacagaa atctgcgttt c 271

<210> 18978
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-H3

<400> 18978

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aattggttga cttttaacga gccacagaca tttacaacct tttcgtacgg aacgggagtt 120
tttggccctg gacggtgctc accaggagaa aaatgtgctc agcctattgc taactcactc 180
accgaaccat acattgctgg ccacaacatc cttcgagccc acgct 225

<210> 18979
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-H4

<400> 18979

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gcgcttgctc cactccttgc tgtgggtccc gttccgctg gaacgccgct tccggcggca 120
 gggaatccgg tggccaccac gaagcctggg ctccggtaac gcagccgact accgcgacct 180
 gctagccgcc gccagggtccg cgccccctctc ctcttccgc cacaacggcg tcgtcgcccc 240
 cgccacgccg cagtacgcgg tctgggtggc gcggtacggc cggccgttcg tgtactgggt 300
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 cttcacgggg ggctttgat 379

<210> 18980
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-H6

<400> 18980

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 aggcgtcgct cctcgagaca cctacatcgc gaatctctc aaggacttga agtgtgcact 120
 gacagcgccc aaggctccct ggaaaatcgt cgtgggtcac caccatca gcagcgctg 180
 cgggcatggg aacaacactg agctggagga gttgcttctc ccggtcctca ggacacacgg 240
 ggttgacatg tacttgaatg gccatgacca ctgccttaag cgcgtcagca gcagagacag 300
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<210> 18981
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-H7

<400> 18981

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 gagaggaccc catacatcaa acatgactaa agaagaagaa gatgaacaat accttataga 180
 tgaataatat gcccttgctt gcgcagggtg gaacacattt agtttcacaa cctttatgc 239

<210> 18982
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-H9

 <400> 18982

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 cccggtgccc gacatcctgc ggaggcagcg cctgctggcg agggactccg tcaagcgggc 120
 gctgctgttc caccagcccc ccaggccccg ggacgccttc caccaggtgc tcaacgggct 180
 ggcgcgcaag ctgccgcacg gcgagggcgt gttcctgcag cccggggaga aggcgctcga 240
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 gacttcttca tgttccttct ttcttttggg ctctcttatt tgattggcat tggcatcgat 360
 ggatggatca cacattagtt tttgtatact acggcccgtt tacatgcagc agcgctatac 420
 tgtatactc 429

<210> 18983
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-A1

 <400> 18983

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 caagaaggac gaggagcagc ccgccggcga gtacgggtac tccgagaccg aggtgggtcac 180
 cgtcaccggc gagggcgagt acgagaggta caagaaggag gagaaggagc acaagcacia 240
 gcagcacctc ggcgaggccg gcgccatcgc cgccggcgcc ttagcactct acgagaagca 300
 cgaggcgaag aaggaccccc agcacgcgca caggcacaag atcacggaag aggtcgctgc 360
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<210> 18984
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A10

<400> 18984

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ccacgcgcct ggcgtccgcc gcctgcgcgg gcgagaagtt cccggcgggg cgtgcgtacg 180
cgctgtgcga ggacctgccg aagctgggcg cgctgctgca ctggacgtac gacgcgtcca 240
agagctccct gtcggtggcg ttcgtggcgg cgcccgcggc ggcgggcgga tgggtggcgt 300
ggggcctgaa cccgacgggc gagggcatgg cccgcgc 337

<210> 18985

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A11

<400> 18985

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agcggagcag agcaacagca gcaggctcag gaagaggaga agagaaggctc caggagacag 120
cacagcagcc aggaagagca agagcaagat gctgcgcggt ggcacgggca tgctgggggt 180
ggtgaacttc ataaccttcc tgatctcgat ccctatcctt ggcggcggca tctggctggc 240
gttgcgggcc aactacaccg actgcatecg cttcctgcag tggcccatca tcgcggtggg 300
gctcggcctc atggctgggt gcctcatggg cttcgccggc gcctgctacc gccagacct 359

<210> 18986

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-G3

<400> 18986

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tgaggaggct tggtaacggt ggtggcggtg gattggagcc atgggtgtgc attggcgatg 120
gacagaaggc ggctgcagcc gcatcatctg gaaggaaaga gaggaatggt tgtagaattg 180

agtgtactg cagttgggtg tttgtggcac ggtgcgcgga cgtcgaggtg tggagtcagg 240
 tgggattggc accagaagcc ggtgggaaag aaagtgatga 280

<210> 18987
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-E8

<400> 18987

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 gaggagcagc ccgccggcga gtacgggtac tccgagaccg aggtgggtcac cgccaccggc 180
 gagggcgagt acgagaggta caagaaggag gagaaggagc acaagcaca gcagcacctc 240
 ggcgaggccg gcgccatcgc cgccggcgcc ttgcactct acgagaagca cgaggcgaag 300
 aaggaccccg agcacgcgca caggcacaag atcacggatg aggtcgctgc cgcggcggcc 360
 gttcggcgcc ggcggctacg tattccacga gcaccacgag aagaa 405

<210> 18988
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-E9

<400> 18988

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 caccgccaac cgtgcccata gccaccact cctccagaat cctcggcaac atcatcaacg 120
 gcagaacgat cccgctcata catgtatagc cggcctaccg caacaagaag ttcgagacac 180
 tttcatacct gccaccgctt tccaccgacg acctgctgaa tcatagtcac tacctgctgc 240
 tcaacgactg gatacacctt actctaacta aaacaggctc gattcgtgta ccgtgaaaac 300
 tccacctacc cttgtacta caaccgccag tactggacca tgtctgaatc tgcccata 358

<210> 18989
 <211> 93

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-F1
 <400> 18989
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 agggatcagc caatctcgga aaggaagttt cgt 93

<210> 18990
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-F10
 <400> 18990
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 ctgccgcgct gcactgcaca atgggcatct gcgtgtcgtg cgacgcggcg gacgagggcg 180
 ccgcgacggc ggcgcgggtg gtgctcccca gcggagagct ccgggagtac gcgccaccgg 240
 ccaccgccgc ggaagcgctg caagcggcgg gcgagggctc gtcgtggctc ctctgcgacg 300
 ccgacgggat ggcgttcgat ggccccgctg cagtcgcggc ggtcgcgccg gggtcggagc 360
 tccaggcggg gcaaattctac ttcgtgctcc cc 392

<210> 18991
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-F11
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 ggacgcgaac gacttccgca agtaccgcgg cgtgcggcag cggccctggg gcaagtccgc 120
 ggcggagatc cgcgacccca agaagcgggg gtcccgcgtg tggctcggca cctacgacac 180
 cgccatcgag gccgcgcgcg cctacgaccg cgccgcgttc cgcattgcgc gcgccaaggc 240

catcctgaac ttccccaacg aggtgggcac ccgcggcgcg gacttcctcg cgccgccgcc 300
gccgccgccg catgccgcgg caacgtccca gaacaaacgg aagctgatgc acgacgccga 360
ggccacggnc acggccgggg ccggagccgg agccgagcca 400

<210> 18992

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F12

<400> 18992

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ggcagagatc cgatccggac cgcaagaga cgatgactca cccgaggccg gatcatgaac 120
cgtcggggcga ggtgtcgctg gcgctggcgc tgagcacgga ctcgccggc tccgcggtg 180
ccccggcggc gaagcggggc cggcggatgg gcgcccgggc ggccacgtcg ggggagggg 240
agttcgtgtg caggacctgc agccgcgcct tcacctcgtt ccaggcgctc ggcgggccacc 300
ggaccagcca cctgcggggc cgccacggcc tcgagctcgg cgtcggcgcc agggcgctca 360
gccggcagca gcacaagcat catcagcagg ccggcggc 398

<210> 18993

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F2

<400> 18993

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agaagcgtag tcgtcgccgg aaggaggggc gcggagcaag atgtcgtggc aggcgtacgt 120
cgacgagcac ctgatgtgcg agatcgaagg acagcatctc agcgccggcg ccatcgtcgg 180
tcacgacggc agcgtttggg cgcagtccga gagcttcccc gagttaaacg ctgaggaggt 240
tgctggtatc ataaaggact ttgatgaacc tggactctt gcaccaactg gtcttttcgt 300
tgaggtaca aagtacatgg tgatccaagg tgaacctgga gttgtcatcc gaggaagaa 360
gggcacttgg ggcattacta tcaagaa 387

<210> 18994
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-F3

 <400> 18994

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 ttttgactga tttggttgag ggccttgaag aagctgatgt gacagttgaa ataagggttaa 180
 agattgatca gaatcatgca gatttgaaag gagggtcctt ccgtgactat ggagaatccg 240
 tcttgagaca tttagagaat gcaatcagca aagacccaaa tctccataaa gccaggtga 300
 accatgatgg cgtaagggtt tcaggatatg gtgggtggtt cttgctgaag ctctctctgc 360
 atgatcctgt tc 372

<210> 18995
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-F4

 <400> 18995

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 ccccgcgga ggccctaccg catcgagggtg gtcggggtcg tctgcgacgc ctacctcgcc 120
 gtggcgaggg gcatccggag ggccatcatc acccgcgagg ccgtcagggt caggtcccag 180
 ctgcagtcgc acaagcgctt cgccgccgcy ttccagcggg acagccgcct cgtggacggc 240
 gccaggctct acagcaccaa ctccatgggc tctgccaagc tcatcgctg gaaggacggg 300
 atcggaaca gcctgctggt ggagccccgg gagttcgact gcctggagaa ggtgagcggg 360
 ctcaacgagc acgccacctc cggtcacgac ctctacccc ac 402

<210> 18996
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F5

<400> 18996

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tgaggctctc aagaaaatga acaagaacaa gaagcttggt aagaggcttg ccaagaagta 120
ccatgctttc ttggcatcag aggccatcat caagcagatt ccccgctctcc ttggctctgg 180
tctcaacaag gcaggcaagt tcccgaacct ggttactcac caggaatccc tcgaatccaa 240
agtgaacgag actaaagcaa cccg 264

<210> 18997

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F6

<400> 18997

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gcactttggt ggaatgcagt agcttacaat agtgacgatg tcagcgaggc tggagtaaag 120
atatttcagc gaccagtctc aaatgaggta tatgatctga gagcaaaaaa ggatcctcca 180
ttttgcaagg aagagcagaa caaagctagt gcatgggtata ctaatatcaa acattgcctg 240
caciaagcac ctgttggtat cgaagaaaga ggacgtgact ggctgagga gtggcccaag 300
aggctcgaga gtttccctga gtggcttgag gaaacag 337

<210> 18998

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F7

<400> 18998

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gagatggctc gtaccaagca gactgctcgc aagtccacgg gaggaaggc tcccaggaag 120
caacttgcca ccaaggctgc ccgtaagtct gccccacca ctggtggagt gaagaatctt 180
caccgttacc gtcttgcaac tgttgccctc cgtgagatcc gcaagtatca gaagagcact 240

gagctgctga tcaagaagct gccctttcat aagctcgtca gggaaattgc acaggacttc 300
 aaaactgatt tgcgttt 317

<210> 18999
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-F8

<400> 18999

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 gcggcggttg ctacggcggc ggtcggcgcg gcggcggtta tggtagcggg cgccgtgacg 120
 gcggttatgg cggcggtggc ggctacggcg gtcggcgcca gggtagtggc ggcggctacg 180
 gaggcggttg cggctacggc ggtcggcgcg agggtagtgg tggcggttac ggcggcgcg 240
 gcggcggttg gagggactga tgtgtgggcc catcctggct tcggccgagt tatcttatct 300
 atctatagta tcgtgttacc gttcgtttct gtcaccgtgt tagtgtccgt tctacctttg 360
 gattangtgt tggtagccct gttg 384

<210> 19000
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F9

<400> 19000

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 ccttggtacg acaagatggc ggcgaaggga gccaaaggcca cggccgacaa gtcggcgggac 120
 aaggacaagg ggaagaagac cggcgggccc gtctcgcgct cctcccgcgc cgcacccag 180
 gagaagtcag ctccgaagaa agatgtttat caattgttcg ctgagaaggc cagggataac 240
 aaacaactgg aatcaagatg ggcgatcatg caagaaaccc gcgtggagta tttccgtgga 300
 aaagatttca ataccttcgt caagaatcat ccagaagtca cggaaatttt ggagccagat 360
 aaggatttag aggtggaaga cattgttaac a 391

<210> 19001
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-G1

 <400> 19001

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 cggcggcggt cctggcagcg gcgctgctgc tgctggcggc agaggccggg acggcgctcag 180
 cggcggtgag ctgcggcgag gtgacgtcgt cggcggcgcc gtgcctcggg tacgcgatgg 240
 gcagcgcggc gtctccctcc gctgcgtgct tcagcggggg gcgctcgctc aacagccggg 300

<210> 19002
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-G10

 <400> 19002

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 tgatgcaacc gcagatcacc ctgctcaagg agggcacgga cacgtcgag gggcgcgctc 180
 aggtggtgag caacatcaac gcgtgcacgg cggcggcgga caccgtgcgg accacgctgg 240
 ggcctcgggg gatggacaag ctcattccag acgacaagg cggagtcacc atctccaacg 300
 acggcgccac catcatgcgc ctctcgaca tcgtgcaccc cgccgccaag atccttgctg 360
 acatcgccaa gtcgcaggac tccgaggtcg gcgatgggac aactactgtg gtgcttctag 420
 ctg 423

<210> 19003
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-G11

<400> 19003

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cgtgaagccc gtgcccacca tccgggtcaa ggccaagcac gccggcgtca cgcacgagat 120

ctacatcagt tccgaggcct ccttcgggtca gtccagccgt ctgctctctc tctctcgctc 180

gctcgcgctg acggatgctg ctgcgccagg gagctgaaga agctgggtggc cgccaagacg 240

gggctgcacc ccgacgacca gaagggtgctg tacaaggaca gggagcgtga ctccaaggcg 300

ttcctggaca cggccggcgt cagggaccgc tccaagggtg tgggtgctgga ggatcccag 360

gcccgcgcgc gccgactcat cggngagcgc c 391

<210> 19004

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-E7

<400> 19004

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atTTTTTTTT ctttggtgtg ttacattcaa agtcgtgacg ccattttttt tttttttaac 120

acaaacaaca aaccccccat actcatttaa actcaccaac cccaccaacc ccaactctca 180

aacacctaca tctcacccca aatcaattaa aacatccacc aaatacacca tcttacctac 240

aaaaaccctc aacttaccca caaaaaaacac cccctaccac aaaa 284

<210> 19005

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-015-Q1-K1-G2

<400> 19005

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ggctcgtctc gctccccgtg ttgcgcgcgc cccagatccg gcaccgcccg ctgctcgaac 120

ccgcacccca cgcccgcagg ccgggaccgg tgggcgcgcg ccgggcagta ggaggggagag 180

gaagggcggc atggcggcgc cgccggcgag ggcccgggcc gactacgact accttatcaa 240

gcttcttctc attggggata gcggtgttgg caagagttgc ctctgttgc gggtctctga 300
 tgggttccttc actacaagct ttattaccac aattgggtatt gactntaaga tacggacaat 360
 agaattggat ggtaagcgta taaagctaca gatttgggat a 401

<210> 19006
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-D10
 <400> 19006

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 aaagcgaaag cagcaagaag caaagcaatg gagaaccctg cgagtgtgct agttctacca 180
 gcgcagttca ccaaactcac cttcggaac ctgtacatcc gccgggccgg gccgggcagc 240
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 gtctacgacg gccgcggccc cgacgccagc cttgtggccc gcgtgcaggg gatcaccagc 360
 gaaatcgga acgcgcacca actgttcgtc gttgtgttcg acaccgacag gctcaagggg 420
 ctcac 425

<210> 19007
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-D11
 <400> 19007

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 cgtcgctgct cgccttcggc gagggccgcg tgacgatgcg caagacggcg gcgaaggcca 180
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 cactgtccgg cgagccgccc agctacctga cgggcgagtt cccgggcgac tacggctggg 300
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tccactcccc ctgggccatg ctgggcgcgc tc

392

<210> 19008

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D12

<400> 19008

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tctttcccaa gaggatagtt ctttagccaa gccatatcac acttctctct ctaccgagcc 120

acacagacca gagcgagctc tcatggcgat actgctccgc aagggtgtggg gctccgtgct 180

ggcgcgcgcc gcacgcgcgg gggccgaccc gcggggccgc cgcgcgcacg cgcacctcgc 240

ggagcagtac cagtaccaca gctcgctatc atctggctgc gctcgacgac gtccccacca 300

acgtgctgct ccagatcatg ctgctgctgg tcccgctcgt cgacgcgcgc tgcagcaccg 360

tctgccgcgc ctgggcgcgc ctctctc 386

<210> 19009

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D2

<400> 19009

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gggaggggaa acaacatggg ctattatata cttcctgaca gcctaaacct ggagactttg 120

ctggttgagg aaacaccaag ggtcaagcct aagaagccta cttctgggaa gcccttgggg 180

cgtgggcgtg gccgtggctg tgggcgcggt cggggtcggg gacgttgagc atgctagctg 240

cttttgaaa ttgcattgcy tgcacctgca gtgtaaccta cattcctatc aattgtacga 300

agtatgcctt tgattatgcc accatgtatc aattgctttt aaaaaaaagt aaaaca 356

<210> 19010

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D3

<400> 19010

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agaatcagcg aattgatgcy agctaggagc caagactctt gtggttccag gaaacctccc 120
tattggatgt gtcccaaaat atctgatgat attcaagagc aataagaaag aggattatga 180
tccacagaca ggttgtctta gatggatgaa cgagttctca cagtaccaca acaagcttct 240
tgtggagcag ctcaagaagc ttcgcaggct ccatcctgga gtaaccatca tctattgctg 300
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<210> 19011

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D5

<400> 19011

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ggccttcacg gacgagaggg cctcacgaaa attaaacagt tcacggtgga ttcattctcg 120
gtcgagacca atatggtgtt cttcgatata gtggatccac acatttcacc gagcaagcta 180
tgccaagtct tggaacaacg caatgttctt gcaatgccag caagttc 227

<210> 19012

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D6

<400> 19012

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cagtgtgtgc acgaaagagc atagagagct tgcagcagaa gctgtaaggc aggggtgctgt 120
ccttctgaag aatgaccata attttttgcc tctgaagaga agcgaagtta gacatgttgc 180
catcattgga ccatctgcaa atgacgcgta tgcgatgggc ggagactata caggtgttcc 240
ctgcaatcct acgaccttcc ttaaggcat tcaagcatat gctacac 287

<210> 19013
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D7

<400> 19013

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cagtgggggt tggaggtgta tactgatgct ctcatgtcca gctacatcta caatgtacct 120
tgcactcttg tttgctttta gctgtgctta ttctgagtc gttgaatgtt ttatatatttc 180
ttccacaag tctgtctcat gtagggaact gtctcatcta ggaatataac ttcttttact 240
tgctaccgct gcgattgagt ttggaacccc cattgaattt ggaaacccca aacctgggct 300
tggggt 306

<210> 19014
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D8

<400> 19014

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tatctcgct gaacaggcag aggagaaatt tggctacctt ttagaatgct tcgacatggg 120
tgctcctcca catggaggca ttgcctatgg attggatcgg ttggtgatgc ttttggcggg 180
tgagagctcg atccgagatg tgattgcttt cccaagacc acgactgctc agtgtgcact 240
caccaaagca ccatcagctg 260

<210> 19015
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D9

<400> 19015

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ctgagccccg agatgcggga gacactggac aaggctcgtg ggtccagcaa ggtgttgcta 120
 ttcatgaagg gcaccaagga ctttccgcag tgccgcttct cccacaccgt cgtgcagatc 180
 ctgcgctcgc tcgacgtgcc cttcgagacg ctgcacgtgc tcgctaacga ggcgctccgg 240
 cagggggtca aggagtactc cagctggccc accttcccgc agctctacat cgacggcgag 300
 ttcttcggcg gatgtgacat caccgtcgag gcatacaaga gtggagaact gcaggaaact 360
 ctagagaaaag caatgtgttc gtagaaaaaa atgaacaata agcagatggc atacaattaa 420
 tcaaaa 425

<210> 19016
 <211> 297
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-E1
 <400> 19016

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 ggccacaatt catgatgagg gcagatgaac ttttcgaaca acttcagaag ttcaatatag 120
 gttctcaata tccttatgaa aacgagatgg acctcgcatt agaaagggca ctctgctcgt 180
 tacttggtgg ggatatttgc aattgcagaa tgtggcttgg aattgataat gagtctcgt 240
 catataggga ccccaaaatt atcgagtttg tggatgaata ctctagcatg aacgaag 297

<210> 19017
 <211> 315
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-E10
 <400> 19017

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 gaggagctgg agagacgccg gcgacgtgaa gcaaccgccc gatcggagcc gcggctgagc 120
 aggaggaggg agccggagat ggtgggtctc gtcggcgcca gcacggcgcg ggcggaacac 180
 gtcgtcgcca acgccggaag ggaagcagaa tacgtgcgcc ggatgcaccg gcacgcgccg 240
 gccgatcacc agtgcacett cacccttgtc aagcacatta aggcgcccgt ccaccttgtg 300

tggcaactcg tgcgg

315

<210> 19018
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-E11

<400> 19018

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gatcgaaagg tgggtggagag aggagaagcg ccaagaggca ctggagcttc aaggtgtctc 120
gtcttccttt tctgacaaga tatcagagga aatatgcaat tcagcagcta aaatggccaa 180
caacttagga gtcgacgccg ttttcgttta cacgaaggac ggatacatgg cctccctgct 240
ctcacgatgc cgccccgact gcccgatctt cgccttcacg tcttcgacgt ctgtcaggag 300
acggctgaac ctccagtggg gcctcatccc gttccggctc agcgagtccg acgacatgga 360
gagcaacctc aaccgcacct tcttcctgct gaaggccagg ggcatggtgc agtctgg 417

<210> 19019
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-E12

<400> 19019

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ttctcccgc cgagctccca gaagtccttc ccggcgccgg cccaccctg gtccggccgc 120
atctggggcg gcacgggctg cgcggggcgc ggcgcgcatc tccactgcbc cacgggcbac 180
tgcggcgggc ggctccagtg cggcgggctc ggcgcgcgcg cgcgcgcgac gctggcgag 240
gtgaacctcc accacggcaa cgaccagacc tcgtacggcg tgagcgtggt ggacggcttc 300
aacgtgggac tgtccgtgac cccgcacgat ggccgcgga actgccccgt cctcgcctgc 360
cgcaagaacc tcaccgagac ctgccccggc gagg 394

<210> 19020
<211> 446

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-E2
 <400> 19020
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 gacgcggggg aaaatgggga agactgcggg gcggatgaag gcggtggtgt acgcgctgtc 120
 gcccttccag cagaaggtga tgccggggct gtggaaggac atcaccacca agatccacca 180
 caaggtcacc gagaactgga tctccgccac gctcctctc acccccgctc tcggcaccta 240
 ccaatacgcc atgtggtaca aagagcagga gaagctttcc cacagatact aaatgggatg 300
 tcttccaagt tgctgcggct tgctgcagtt gaattttcca tgatgggttg tataatctgt 360
 caatgtcatt tctttgtca gttttagttc aaccatttt caccttttca tatgcatata 420
 cggtatctgt gcctggcaaa catatt 446

<210> 19021
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-E4
 <400> 19021
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 atcgacgacg cgggtgggtc cgactcgggc gtcattggggc tgacggagag cttgttcggg 120
 tgcttcgggg ccgccgccgc cggcgggcag gagcccgcg cggcggtgcc ggcgagcagg 180
 cgccccggcg gcgttgggaa gcggacgctg cggcgggtga gcacggccaa cctgcggtcg 240
 ctgtcgctgc aggacctgtc gcggaagctg gagacgacga agctgcacac cttcacgctg 300
 gacgagctca aggccgncac gaagaacttc ttcaccacca acttcctcgg cgagggcg 358

<210> 19022
 <211> 256
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-E5

<400> 19022

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aacagcctca accgagagtt cagattaaaa attaaagagc acatgcagca ttgtgtggat 120

caccctgaag aggttagcaa gctggccaaa gtgaaggcac aggtttctga agtcaagggt 180

gttatgatgg aaaacattga aaaggctcta gatcgtggag agaagattga gctgcttggt 240

gacaagactg agaatc 256

<210> 19023

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D1

<400> 19023

catgaaggcc cagcatectc ggctccgttt cctcttctct cccgatccgc ggttcctggt 60

cgcttcgctt ccttgccctga tctttgcttc ccagacggcc agatcaggcg aaaggcgtga 120

cggggggccac cgctgcggcg ccgcccctcg accctccgct gctccgctg cgctggagac 180

catccatctg gaagagatct ctgatttacg ggatggacgg agccaagcca gtggcgggcg 240

tgaagc 246

<210> 19024

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-E6

<400> 19024

gagccgtaca aggggtattgt tgactgcttc aaacgtacca ttaaggatga aggggtggct 60

tccttgtgga ggggtgacac tgctaattgtt attcgttact tccctactca ggctttgaac 120

tttgcattha aggactactt caagagggtt ttcaacttca agaaggatag ggatggctat 180

tggaagtggg ttgctggcaa cctggcctct ggtggtgctg ctggtgcttc ctcttttagtt 240

tttgtgtact ccctggacta cgcg 264

<210> 19025

<211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-B1

 <400> 19025

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 cggcacaaatg ccgagccagg tcgcgtgct cctgccctg ctactgctgg cctcgccggc 120
 ggccacgcgc ctggcgctccg ccgcctgcgc gtgcgagaag atcccggcgg ggcgtgcgta 180
 cgcgtcgtgc gaggacctgc cgaagctggg cgcgtcgctg cactggacgt accacgcgtc 240
 caaaagctcc ctgtcggcgg cgttcgtggc g 271

<210> 19026
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-B10

 <400> 19026

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 caaacatgct gctttggcca ggcccaaagg gtgcagtcaa tcaaagagat gctgatcttc 120
 tcttcatgtg gaagaggtac gagcagttaa atggggggac cgaagagaag ctgagggctc 180
 tcatagagat taaagaaact gttcagcaca ggaagcatct tgacagcagt atcgatttcg 240
 ttgggaggct cgtcttcgga tttgagaaag ggccttcgat gcttgaggct gttagaacct 300
 ctggtcaacc attagtcgat gactgggact gtttgaagag gatggtgcgg attttcgagt 360
 cccagtgtgg ttcacttact cagta 385

<210> 19027
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-B11

 <400> 19027

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gagtccgggt caaatggcca ggcgctgggt ccggcccgag gtgtaccgc tgttcgcggc 120
gacgggcggt gccgtcgga tctgcggtt tcagctcttc cggaacatca ctggcaaccc 180
ggaagtcagg gtaaacaag caaggagggc agctggtgtg cttgagaacc atgangaggg 240
gagacgttac gccatgcatg gcctaagaag ctttgtgcac gacaagactt ctgagatcat 300
g 301

<210> 19028
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-B12

<400> 19028

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gggatcgaat caaaagatgc tggacaagct gtgggacgac gtggtggcca gtcctcaacc 120
ggagacgggc ctcgagaagc tccgcaaggc caccaccgcc cgtcgctcg ttatcaacat 180
agacgcgaac ggcggcagct acaagctggc gcagtcgatg ccatcgacc cgacgactcc 240
gatgacgct tcacgtcgt attcatcgac gacgccgcgc ggcccgca acatgtggcg 300
catagtcttg cacacgggga tcaacctggc cac 333

<210> 19029
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-B2

<400> 19029

tcccgactcg acgcacgcaa tccattctag atcgctagct tctcccttt ttttttttt 60
ttatcggtta aacacccatt ggttgatcaa ataccaggta ggtacacttc actacacaaa 120
acaacaaaca taaaactggt taccgtaata tgcaccacct aatgaacaat acctaataac 180
taccactatt ataattcact tcat 204

<210> 19030
<211> 205

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-B3

<400> 19030

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 cggtatcgac ggcaatccag atcctaccat ggctcaagac attctccaac ggcactccat 120
 caaagaaaca cccgttgctc ccaccgctgc tgatccacgg cgggtcaatc agcgctccgg 180
 taaccctcc tctaagctcg ccgtc 205

<210> 19031
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-B4

<400> 19031

attcccgacc gacgcacgca ttcatagatg tggctgcagc tgttgcattgc tttactcaaa 60
 gtgtgcattgg atcaaataga agaagtgttt aaccatacat tggtagcgct gcatatatac 120
 ttgttaattt atggaatata aattaagtct tcaacatgat tgattgcatt tgacattatt 180
 ttccaatttc tttactaact gttttaaatt ttcataact actcaccaaa tgatttt 237

<210> 19032
 <211> 188
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-B6

<400> 19032

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 gctcgcaggg gtcgaggaga gcgagcacag cttctacgcg ctgcagtggg cgctgcagca 120
 cttcttcccg ccggggccagc cgcagcagta ccgcctcgtc gtcgtcaccg ccaagccac 180
 cgccggct 188

<210> 19033

<211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-B7

 <400> 19033

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 cggccggcgcg cgagcgctcg cccatccgag caagccgagg aggaagcgag cgcgcgaaag 120
 tatcaggagg aggcatgggt accctggggc gcgcgatctt cacggtgggc aagtggatcc 180
 ggggcacggg gcaggccatg gaccgcctcg gatccacat ccagggcggc ctccgcgtcg 240
 aggaacaggt ttcaaggcat cgtacaatca tgaatatttt tgag 284

<210> 19034
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-C10

 <400> 19034

 agggcagggg acacagccac tcgccttcga gaccccggcg cgcgcgagag aaagagggga 60
 gaggaggatc ttttgttggg gaaaaatatt ggaggcgag ggaaggtgaa ggagggggat 120
 cggagatgaa cgtgttccgg ctggcggggg acatgacca cctcctcagc gtggtagtgc 180
 tgctcctcaa gatccatacc atcaagtcct gcgcaggcat atctctgaag acacaggagc 240
 tgtatgcact tgtttttgca gcacggtacc tggacctgtt tgttcatttt gtgtctctgt 300
 ataacactgt catgaagctg gtcttcttgg caagttcttt ctcgatagtt tggtagatga 360
 agcggcataa gattgtgcgg aggacatatg acaaggatca tgacaccttt cgccattacg 420
 ttt 423

<210> 19035
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-C11

 <400> 19035

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 actgggcgca gctagctagg agcagcagca gcggcgggcg tggcgggcctc catgatctcc 120
 tcgtcagctc tggcggtggc gcctcagggc ctgccgcccc tcggccgccc cgctcctcc 180
 ttcgccgtcg tctgtccaa gaagaagatc aagaccgaca agccctacgg gattgggggt 240
 ggctgaccg tcgacgtcga cgccaacggg agaaagggca agggcaaggc cgtgtaccag 300
 ttcgtcgaca agtacggcg gaacgtcgac ggatacagcc caatctacaa cgaggatgac 360
 tggctcctca ccggcgacgt ctacgtcggg ggaaccactg ggcttctgat ct 412

<210> 19036
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-C12

<400> 19036

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 ggaactggta aaactacatt tgtgaagagg catctcactg gagagtttga gaagaaatat 180
 gaaccaacca ttgggtgtgga agttcatccg ttggatttca ccaactaactg tggtaagatc 240
 aggttctact gctgggatac cgcagggcaa gagaagtttg gtggcctcag ggatggatac 300
 tatatccatg gccagtgtgc gatcatcatg tttgatgtaa cctcaaggct tacttacaag 360
 aatgttccta cgtggcatat ggacctgtgc agggctctgtg aaaacattcc ca 412

<210> 19037
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-C2

<400> 19037

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 ataagcagcg cgcgaagatg caagactggg cgccggtgtt cgtctcgtg gtgctcttca 180

tctctgctgtc gccgggcctg ctgttccaga tgccgggcaa gtgccggatc atcgatttcg 240
gcaactttca gaccaacgcc atctcca 267

<210> 19038
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-C3

<400> 19038

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gggcggtgga ctacggcggt cacaagatct gggagatgaa caacctcggg gtacgaagac 180
atatcggttt tggggcaaag gccagctgag gaatgataaa ttttggtcac cagtttgctt 240
cggtttgacc gtttcatttt ggcacagtaa taaacgatgt aaacttacgc tggtcctatg 300
acctccttct cattcggtta ctcttgaaat gcttt 335

<210> 19039
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-C4

<400> 19039

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tgggagtgta ggtggagtcc tgatggcagc tggagcggtt caggtgatag tggggagctt 180
catgtacgga ggaggttcaa agaagaacaa ggtgaaagcc gagttggacg cggagcctga 240
ggaggcgaac gccggcgacc aagaggtggc acttgcgag cacagcagca tggccccctca 300
tctgccatg agtgggtggtg gcggctgggc atctggcatg atgaggcaga tggagtcgag 360
aactcccaac 370

<210> 19040
<211> 359

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-C6

 <400> 19040

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 cggcgagtac ggggtactccg agaccgaggt ggtcaccgcc accggcgagg gcgagtacga 180
 gaggtacaag aaggaggaga aggagcacia gcacaagcag cacctcggcg aggccggcg 240
 catcgccgtc ggcgcccttcg cacttctacg agaagcacga ggcaaaaaag gaccccaagc 300
 acgcgcacag gcccaggatc acggaggagg tcgttgccgc ggccggccgtc ggccccggc 359

<210> 19041
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-C7

 <400> 19041

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 ttatgcttgg atatacggag tgacatcgtg gagcataaag atgacttgta cattcgtctt 180
 gttcatcgag agtcatgtga cttttatcaa aagaaacaaa tacattgtga tatcaatcac 240
 gatatatgtt ttttaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaaaa aaaaataaaa 300
 aaaataaaaa aaaaaaatat ataaaaataa atttaaaaaa atataataat aattt 355

<210> 19042
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-C8

 <400> 19042

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 gcgcacgcca gggcgacgca gatcgcgggc gaggccgtgg ccaacctgcg caccgtggcc 180
 gcgttcaacg cggagcgcaa gatcacgggg ctgttcgagg ccaacctgcg cggcccgtc 240
 cggcgctgct tctggaaggg gcagatcgcc ggcagcggct acggcgtggc gcagttcctg 300
 ctgtacgcgt nctacgcgt ggggctgtgg tacgcggcgt ggctggtgaa gcacggcgtg 360
 tccg 364

<210> 19043
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-C9
 <400> 19043

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 caggatgata gcgataatct cttaaactta gcacttcaaa gctaccaacg ttccattggt 180
 gttcgtggca aatatgacct acaagtgggt tttctgttgg tctctttgtg gtttattctt 240
 ttctcaaggg atcaagttct gaaagcaatg ttgaaaacca caaatatgt ccaaacctac 300
 aagttcatac cactgattta tcaaattgat tctagacttt gcagctccat agatgctcag 360
 gcttcattta actttcagat tgcgttaact tctctttttg 400

<210> 19044
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-A9
 <400> 19044

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 tgtttccatg tctatcctgg aaaagctcgt ccagagctgt tcctttccag attcatggcg 180
 ggggcccgca gacgctgagg tccaggctct cataggatat ctcgaagagc tacggtcctc 240

cgtcctggat ctttccaagg aggatgagga cgaggatgac tctgctacgt cgtcgtccac 300
gctgaagatg agcctgacga gccagttgca ggaactttgt tatgatgctg aggactatct 360
ggagatggcg cagcactccc gtggtggctg ctctggcag atc 403

<210> 19045
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H11

<400> 19045

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gccgctcgct cctcctcctc ccagccgcag ctggctcgcg cgggcgcggt cctggcagcg 120
gcgctgctgc tgctggcggc gggggccggg acggcgctcg cggcggtgag ctgcggcgag 180
gtgacgtcgt cgggtggcgcc gtgcctcggg tacgcgatgg gcagcgcggc gtcgccctcc 240
gcggcggtgt gcagcggggt gcgctcgctc aacagccgcg cgtcgtcggc ggcggaaccg 300
caggccacct gcaactgcct caagagcatg acgggcccgc tcggcgggcg cgtcagcatg 360
gccaacgcgg ccaacatccc cggcaagtgc ggcgtctccg tcggcgtgcc catcagcccc 420
ac 422

<210> 19046
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H12

<400> 19046

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agaagtaaac caccatatgc ctgaacagct tgcaacaatt gctaaggagc atgggggtat 120
cataagattt attcaagttt cttgcctaag ggcgtcaccg tcttctgaat ctagaatgtt 180
gaggacaaaa gctgcaggag agcaatcagt cttcaaagaa ttccctgagg ctacaatcat 240
gaggcctgct accatgattg gcacagaaga tcgaattctg aacagatggg cacaatttgc 300
aaagaattgg ggtttcctcc cgcttggttg tggtggatct actaagattc agcctgtgta 360

tgtaatcgat gttgctgctg ctattgtgaa ctccctcaag gatgacggca ctagcatggg 420
 aaa 423

<210> 19047
 <211> 471
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-H2
 <400> 19047

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 taccgcccct tccttcaccc gccggcggtt gcggtctccc cgacctcgcc gcctcctgca 180
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 gccatgtctt ccgccacgtt ccacttcccg gccgccggg tgccgcggct gctctcctcc 300
 ctggagccgg gcaccacccc gttcggggcg ctgcgcgcgc tcttctggct ccggatcacc 360
 ggccgccggc acggggagcg agagctcaca ctggcgctgg acttcgcga gcgatgtac 420
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<210> 19048
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-H4
 <400> 19048

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 gtggacgaga tgtcgacgcc ggcgaggaag cggctgatgc gggacttcag gcgcctgcag 180
 caggacccgc ccgccgggat cagcggcgcg ccgcacgaca acaacatcat gctctggaac 240
 gccgtcatat tcgggcccga tgatacgccg tgggacgggt gcacgttcaa gcttaccttg 300
 cagtttacag aagattaccc aaacaagcca ccaactgttc gatttgtctc taggatgttt 360
 catccaaata tatatgctga tggaagcatc tgtttgata tcctacagaa ccagtggagt 420

cctatatatg

430

<210> 19049

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H5

<400> 19049

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cgacgacgac gaggacgggg aagagggtgcc tcagaactac cggtcgttcg gggcgggtggg 120
aaatgtatatt agaccaagga tcgggagggc gaaccgtcgc cagcctcctg gagtgcacgt 180
cctgcaccct cagacaggac cgggcggctg aatgaagatg gagatgggtg agttcaggac 240
caaggaacct tgaaatggca aggtttccgt aagcttaatg aaaacaaggg ccggaacttg 300
gagaaaaggt ctaacgggcc ag 322

<210> 19050

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H6

<400> 19050

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gcatacgcg ctaggtcacc acagccgggg gtcgcggatc gctaggcaag cttgcgtcgc 120
gcgccctctc cgtcggcggg agatggcagc accagcagct tcgccggctc aacatccacg 180
aataccaggg tgccggagttg atggggaagt acggtatcaa cgtaccagcagg ggtgcggcgg 240
cgggggtccgt acaggagggtc aatgacgct tgaagaacat gttccccagt gagaaagaga 300
tagttgttaa aagtcaaata cttgctggtg gccgagggtt gggaactttc aaaagtgggc 360
tgcaaggagg tgtccatatt gttaaggctg aggaagctga aagcattgca cgtaaaatgt 420
taggccagat tctggtaacg aaacaa 446

<210> 19051

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H7

<400> 19051

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cgccggcgcg gcgctgctgc tggcaaccgc ggccttcttc aggctctctc tgggctcccc 120

ctcccggggc ggcaagcgcc tgccgcccac catcccgggg gcgccgggtga tcggcggcct 180

cgtaagtctc atgcgcgggc ccatcccat gatccgggag cagtacgccc gcctcggcag 240

cgtcttcacc gtcccatca tcaccgcag gatcacgttc ctgcgcggcc ctgaggtgtc 300

cgcgcacttc ttcaagggca acgaggccga gatgagccag caggaggtgt acaggttcaa 360

cgtgcccacg ttcgggcccc gggctcgtctt cgacgtcgac tactccgtca ggc 413

<210> 19052

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H9

<400> 19052

cgatgcgtgg cgctcgatttc aagtggatg atgggttctt cctctccatg ctcgccacta 60

gcgtaattat cgttgccatt aattggaaga ggtatcgct gtgtgcccac ccgctccaca 120

tttgatagtg ggtggactac accactgtct tcattcttgc cctcctaagt tttgttgata 180

atggtctcgc tgcaggaatg ggattagatc tcggatggca acagagatat gctcgttctt 240

gtggaagaat aattgtcttc tcagttcttg cgctacttct ctaccactt ctctgggttt 300

ggactgtgat tggtagattg tggtttagca ctgcatgagg ctgctagcca gacgaaggac 360

aaacgtgggg cttcttgata tggctgcttt tcaagtact 399

<210> 19053

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A1

<400> 19053

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 tggagacaaa gccagtgggt ttcttgtcag aagtgaaaat atcaatgatg ctgtatggag 120
 agatataaca aatgaaatac tcagggatgc tgattattta ttcaaaataa ttgggaaggc 180
 atatgctatg ctttcagacc ctacaacgag aagggaatga taacctggag gtggagtgat 240
 agaaaagcag tgcacatgta acatgagcag cgggagcaat gaaaatgatg acaggacctc 300
 ttagtgagag catttaatca tgaagttggt accgcacaaa gttccatac t 351

<210> 19054
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A10

<400> 19054

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 accgcgccga cgagcgacga caaccgttgc tgcattcttc aatggcgact gtgccagtta 120
 acccaaaacc ttctctgaac aacctgacgg ggaagcctgt aattgtcaaa ctcaagtggg 180
 gtatggagta caaaggttat cttgcttcgg tggactccta tatgaatctc cagcttgcca 240
 aactgagga gtacattgat gggcaattct ctggaaacct gggagagatt ctgatcaggt 300
 gcaacaacgt tatgtatctg cgaggtgttc cagaggatgc agagatagag gatgcagagt 360
 gagaagatgt gaatgtaatt tgattctgac atgtatgttt gaatatgccg gtgacaacta 420
 gacctatc 428

<210> 19055
 <211> 137
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A2

<400> 19055

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 aggcttgat atctctatgt atgcattgcc tgttcgttcg ctggaatcta ctacttgag 120
 cggcctcgtc tcttcag 137

<210> 19056
<211> 264
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-015-Q1-K1-A3

<400> 19056

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gggatccggc gacgaagagt aattgaataa cttcgataag atgggtcgtg gtattagcag 120
tgggggtggt cagagttcct tgggctatct ctttggcagt gacgaagctc caaaatcatt 180
tgagaagcct gcaccagttc aaaagccaac tcctncatcc tctgcagaga gactaaaaga 240
tatcgtgct ggtattcaaa gtag 264

<210> 19057
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A4

<400> 19057

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agcccttaa tcctgctatg ttacgtgct gtagtgctgg cagtactttc tactctgaca 120
ctgccactgc ttgcttcac agatctagat gctgtaaatt tcaagaaatt ctgccttggt 180
ttgaagaacc aatacctatg tctaggtcaa aatgccgaac cacgcgcgag gaacgctatg 240
gcgtcctgc ttaacagtga gggatatatc gggccacttt ccacggcctt gggcgccttc 300
ttcaacttga gttacc 316

<210> 19058
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A5

<400> 19058

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aaatattctt cgtgacctta gacgaagtac ctggcctggt cacattgcat accgtggtga 120
ctaacacatc gtacaagttg atcattaaat ctgtattggg gagcaaaaca aagtgtctcaa 180
gaatcgtatt gtcggtgca caacttcttt agtcctgcgc atgtgatgcc acttctggaa 240
atagttcgta ctcagcacac ttcaccacaa gttgttgctg acttgctgga tgttggaag 300
aagattaaaa agacaccaat agtcgtctgc aactgtactg gctttgcagt taataagatg 360
ttctttccat acactcaatc aacacttttt tat 393

<210> 19059
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A6

<400> 19059

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ggttggggtg ccccgagtgt acgaaaggat ttatgaaggt atcttgaagg ccattgcgga 120
actcagacct ctaagaaggg tcatctttta tgctttgtac aaccgcaaac tggcaagcat 180
gaaagcaggc tactcgcaca aaaccgcttc acctttcgcg gacatgctgg cttttcgcaa 240
ggtaaagca aggcttggag gtcgtcttcg cttactgatt tc 282

<210> 19060
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H10

<400> 19060

cacatcctgc tgctcgtcca ctgtcacaga ctgctcctct tcgccccgt caccggcggc 60
ggccaatgcc gcgcccgcga cacggaagcg gcaggcgttg gaggccgagg ccgaggccga 120
ggcgggcggt gaggaggagg aggaggagga ggaaggctgt gctggtaata aggcggcgcc 180
ggccaagaag cgaccgcggg gcagcgaggg gaagcaccgg acgttccgcg gcgtgcggat 240
gcgggcgtgg ggcaagtggg tgtcggagat ccgcgagccg cgcaagaagt cgcgcatatg 300
gctcggcacg tttcccaccg ccgagatggc cgcgcgcgcc caccgctcg c 351

<210> 19061
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-A7

 <400> 19061

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 cgccccctac ccccgcgccg ccgcccttct cctcccggcc ccgcgcgctg ccgtccccgg 120
 cgacgcaccg ccggcgccgc cggcactcca aaaaacataa gccccggccc gcgcccggcg 180
 cgacgccgca gggcgcggaac ttctccgcgc tcccgccgga tctcgtccac cgggcccctg 240
 cgggcgcggtg cgcctccgac cgtccggcgg ccagccgagc gtgccgcgc 289

<210> 19062
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-A8

 <400> 19062

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 cc 62

<210> 19063
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-014-Q1-K1-F5

 <400> 19063

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 ggtcgacatg gctcgcacgc aatctgccgt agcggtcgcc gtggtggccg cgggtgctgct 120
 gctggcagcg gcggcgacga cctcggaggc cgccatcacc tgcgggcagg tgagctccgc 180
 catcgcgccc tgctctctct acgcccgcg caggggtcc gggccctccg cgtcctgctg 240

tagcggcgctc aggaacctca agagcgccgc cagcaccgcc gccgacaggc gcgccgcctg 300
 caactgcctc aagaacgccg ccagggggcgt cagcggcctc aacgccggca acgccgncag 360
 catccccctcc aagtgcggcg tcagcatccc ctacaccatc agcacctnca ccgactgctc 420
 caggggtgaac taaaa 435

<210> 19064
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-F6
 <400> 19064

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 agataattac ctgcacgttg accattccaa agcgatcatc agtgcagggtg gagcgaagca 180
 cctagttcag cttgtgtatt tcagcgagca ggtgggttcag attgcatcac tcacccttgt 240
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 ggtgctcgaa tgggcttcca agcaagctta catggtgcaa gacccagtaa tagacaactt 360
 gttgccagaa gcaaagatca gattggaact gtatcaatct 400

<210> 19065
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-F7
 <400> 19065

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 gtttcttgca agttgctctt gcggtagttc ccccaactgt caccatgcag aacgaggagg 120
 gtaagactgt ggacctctat gttcccagga agtgcctcggc cacaacacagg atcatcactg 180
 ccaaggacca tgcctctgtc cagatcaaca ttggccactt ggatgcgaat ggctgttatg 240
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 gtccttgga caggctgtgg cagaagaaga aggctgatat caagcagtag attttacatc 360

tagtttacca agaattggac actgccttag ctatgttttg aattcatgtc actatatgca 420
atgttgtgat ttcagctg 438

<210> 19066
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-F8

<400> 19066

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gcgaggccat tggtggcgca gctctcgag cactcaccgg cacaggtgct caagaacttc 120
acgcacgtca agaaccttcg gatcgagctc ccctttgggg atttgggtac cggaagaagga 180
agtcttctgg aatggccaac caaatattgg aaccacctt ggaaatgggg ggaccctggg 240
g 241

<210> 19067
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-F9

<400> 19067

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tgccatccat gcataattcc aaaaatgcat ggcaccattg ttacggctaa ttgctcatcg 120
aatcaccagc gctcactttc aggttgctga aagagcgctc ttcattgtga acagtgatca 180
cactagacaa cttgatagca cacaaccgcc atatgatcat gacacttggt gtttcagagc 240
tagagcagaa cattcagaat cactggaacc aaaccgacct gaatctggct gttgatgtca 300
ggtatatgat ctctgagatg gatggtgacc att 333

<210> 19068
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-G1

<400> 19068

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gctcggccga cgtcgatcat gcgagcttgt tcaactcgct aggccggatc ataaatgaca 180

aggaccatac ctacgtgcag aacatcattt gccacttgta cgcgaatggc cagaactgat 240

gtgacttcac aacactcggt acttactgga accttgccgc tcacg 285

<210> 19069

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-G10

<400> 19069

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tcctgctgct cgcgcgcagc gccttctctg ccagcgcagg ggcggtgtgc ggcggtgccc 180

cgaaaccaac tctctctctt ccatcgccac cgccgcgctc gccaccagc acgccgtgccc 240

ctccgcgctc gtccagctcc ggcggcaagt gcccgaagaa cgcgctgaaa ctgggctgtgt 300

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gcccactgct ggacgggctc 380

<210> 19070

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-G12

<400> 19070

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gggcaatggt aacccgattg gtgttaggag ttgttatgat gagggtgtaagc gtgtagcaga 120

gacgctgatg ttcgactatc acaggcagca tggcattgaa atccggattg ccaggatttt 180

caacacctat gggcctagga tgaacattga tgatggccgt gttgttagca acttcattgc 240

tcaggctgtg cgcggtgagc cctgactgt ccagaggcca ggaacacaga ctaggagttt 300
 ctgctatgtt gccgatatgg ttgatggtct tattaagctg atgaatggaa acaagactgg 360
 accgattaac ttggggaacc caagtgaatt caccatgctg gaac 404

<210> 19071
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-014-Q1-K1-G2
 <400> 19071

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 tgcgcgatgg aggcgctcgc gtcggcggttgc gcgctcgtgg ccgccgtgct cctcctctcc 180
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 cagaaggcga tcgacttcgc gtgcggcccc cagggcgggc cgcactgcac gccatcctg 300
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 cacctactac ca 372

<210> 19072
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-G3
 <400> 19072

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 cgacaccaac cgcgggggcg tgggtggggct gtatcaggag acctccatgc tcaccttcga 180
 gggccagaag ttccagggcc catccgccat tgccggcaag ctcagatctc ttcccttcca 240
 ggctgcgag caccagatcg ttaccgtcga ctgccagccg tcggggcccc agggaggcat 300
 gctcgtcttc gtctccggat ccatgcgcac cggccccgag gagcacccca tcaagttctc 360

tcaggcattc catttgatgc cggcagctgg gtccttcttc gagcagaatg acatgttccg 420
cctgaactat 430

<210> 19073
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-G4

<400> 19073

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gtttgacact gacctcatca agaaagtcag caccaactgt cttggcatgc aaaatcacaa 120
attttgata tcaaccaagc catatcgaga gaacgatgca ctatcaagtt tcttcaaaat 180
cttgactaca tcacctgatg aaaacggcaa ggtctatttc tcaactgtac aagccaataa 240
ttattcaatc acttgacgc aatggcattc tgagaaagcc attttt 286

<210> 19074
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-014-Q1-K1-G5

<400> 19074

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gcccattgac ctactggatg atgcaccgcg gcgtgatctg gggcctattc ggtttctggt 120
gcccgtctgt gcggtgttgc ggcccagagc cggcggtgcc gttcggggcac gacctcaccg 180
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aggacgcatt cgggtgctgc ctcaactctg gtgacgacgc cgccgccgcg gcacaggcgc 360
gtctgttcaa gaaagcaaat gangggcacg tcattcaggca gaactagcta ggccggcagtc 420
gccgtgtgta tg 432

<210> 19075
<211> 110

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-G6
 <400> 19075
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 aggtggcaga ttccactatt tgcttgcac tatctaaatt atatggcggt 110

<210> 19076
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-G7
 <400> 19076
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 gaggaacag caggcgggag cggcggcggc ggcgctctcc gccgtgggct tcgaggacta 120
 cctgccggtg atggcgggag ggctgggcca ggacgggctg atgcgggagc tggcgagcgg 180
 gttccggtg ctgatggacc cggcgcgcgg gctcatcacc ttcgacagcc tccgccgcaa 240
 cgcgccgctg ctgggcctgg gcggcatgtc ggacgccgac ctccgcggga tgctcgccga 300
 gggcgacttc gacggcgacg gcgcgctcag cgagacggag ttctgcgtcc tcatggtgcg 360

<210> 19077
 <211> 263
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-G8
 <400> 19077
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 gtgctggtgg tttccctgaa attcccaagc atggatttgt tggatcctgc gactactgga 120
 agagccaccc agacatgac attgcagttg ttgggtccct cggcaacatt ggcaagacct 180
 ttggtgctgc ctgcagtctg ctcgttggca agaagcttga gaatctgcat gaagcactct 240
 cgaacaccag aactgatggc ggt 263

<210> 19078
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-014-Q1-K1-F4

<400> 19078

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acagcatgct gtggctcata tgatgcacag aaaaagttct tattgaaaga taaaatggat 120
aagataaata ttaaagagtt ttctgactct caaagtgctg atggggagaa gaatcaaadc 180
atttggatca aattgaatat tgatcaaact ggattttata gagtgaagta tgatgatgaa 240
cttgcagctg gacttgtaaa tgcaatcaaa gcaaagaagc tctcattaat ggataagatt 300
ggatcgtgg aagattcata tgcgctatct gttgcttgca agcaaact aacgtcattg 360
ttgcgactgc tgaatgctta taatgatgag tctgattaca ctgtactntc acatgtaacc 420
tctgtatggt taagca 436

<210> 19079
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-G9

<400> 19079

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gttcaaagtg atggcaatgg acaaaagcac ctaagtcca tagcggctaa tgacgagtct 120
atcttgtcca ataccaatgg tgttccagga tttccgcaa agaaggcaac ctactcatgc 180
attcaaata acggaaagga agtttttcgc tttgctgtcc gatgcgtgcc acagtccatt 240
gagaaggcac tccaagaagc tggtttgctt gctacagta tcgactggtt gctgttacat 300
caagctaata agcgtattat tgatgctgct gccagcagat tagatatccc atccgacaag 360
gttatttcaa atcttgctaa ttacggcaat accagtgcgg catccatacc attagcattg 420
gat 423

<210> 19080

<211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-E2

 <400> 19080

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 acgggggtgc cttcggcgcg tccacctcca ccgtggccgc tgcgcccacg gtggagcacc 120
 tgttgttcct cgctgctcctc gacggcgtct agacgcccac ccacgagggg acgctgtacg 180
 gaagcgccgg tggcacagtc accgtcaccg gccctggcca gctctccgct gacggtctct 240
 agagcgtcct ggtgcgcggc ggctggaccg ggaccggcgc cgtgcggttc acgctctgcg 300
 ccgacgcggc tgccgaaggc gtctgcgcgg cgtgcttcga gcggtgcggc gcggcccgcg 360
 tggatggcgc gcgcgaggtg tccgtgtact cgtgccgctc cgttgaagtg gaactct 417

<210> 19081
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-E3

 <400> 19081

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 ttgtatccat ctgcttgctg aagttacaag acccgaaaaa taggaaattg gaagaagggc 180
 catggaggga agccgcagtg ttttgcatat attgccacc ttcacctgag agaagatatc 240
 gggcgcgcaa taatgattag tgagcagtc tgtatggagc ctgggtgcag cctctgccag 300
 tattaagtga tctacgtgtt atacattttt tatgttcatg aaacattgat ccattgataa 360
 aatatatcgt caggtggcaa ggggtcgatt tgggggaaaa tatcttacgc aatttattta 420
 ttt 423

<210> 19082
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-E4

<400> 19082

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cgccccggtc gcggccctgc gcccgctggc gtctctcaag tcgtcgtcgt cgtcggcggc 120
ggccttcctt ggccactcta gccgcctcgg ccgcactgct accgcgtcgc cgacgaggcg 180
cagcctaaag gcggaggcca agggcgagt gctcccgggc ctccctccc ccgcctacct 240
cgacggcagc ctgccgggtg acaatggctt cgaccgttg ggctggcgagg aggacccgga 300
gaacctgagg tggtagctgc aggcggagct ggtgaacggg cgggtgggcga tgctgggcgt 360
ggccgggatg ctgatcccg aggtgctgac caaggccggg ctgatcaacg c 411

<210> 19083

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-014-Q1-K1-E5

<400> 19083

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ggacgccact ggtagagctg aagagaatag cccagaagga caacgtcgac gcccgagtcg 120
tcggcaagct ggagtgtac cagccccctt gtcctgcaa ggaccgcagc gctctgagaa 180
tgatcgagga cgcagaggag agagggctga tctcgctgg cgccacgacg ctggtcgagc 240
cgacgagcgg caacatgggc atagccctgg cgtacatcgc tctggcccga ggctacaggt 300
tcgtcgcggt catgcccgcc gactactcgc tcgacaagca gatcctgctg cggtagctgg 360
gggccgattt ggtgttaacc gatcctgcgc ttggcttcca gggacagctc gacaagctgg 420
aacagctcan gaaagaaa 438

<210> 19084

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-E6

<400> 19084

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gaaggccgcc ggcgcgtcca cctcaaccgg ggccgttgcc cccaaggggg gacacctggt 120
ggttcctcgt cgtcctcgac ggcgtcgaga cgcccatcca cgaggggacg ctgtacggaa 180
gcgccggggg cacagtcacc gtcaccggcc ctggccagct ctccgccgac ggcctcgaga 240
gcgtcctggt gcgcggcggc gggaccggga ccggcgccgt gcggttcacg ctctgcgccg 300
acgcggctgc cgagggcgtc ggcgcggcgt gcttcgagcg gtgcggcgcg gcccgcggtg 360
agggcgcgcg cgaggtgtcc gtgtcctcgt gccgcgccgt ggaggtggag cgcg 414

<210> 19085

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-E7

<400> 19085

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ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120
ggcctcgctt gggccaaggga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggcc gcaacatcac cgtcaacgag gccagtccc gcggcgggcg tggaggcggc 360
ggcggcgggc ggtacgggtg tggccgtgga ggcggcggtt acggcggttg cgggcgccgt 420
gatggcgggc gc 432

<210> 19086

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-E9

<400> 19086

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tttctggacc gttcggcacg aagcaagcac cttttctacg ccagcaaaga aactcttttt 120

cgaaacaagg atctcagtca ttgaaaaact actgtgctcc taagaatggt atccccaagg 180
aggcaaagga ttacttgcag catgaagaat tacctatggt ggtgctagat catgccaaga 240
acaccagtga taaatcaagc tcatattcaa gttcagctga tgaagttggt ctaactggag 300
tcatcaacaa ctatgcaact gaaggaaatg agaggtcaca acctgatatt gaagtagcaa 360
cgtcagtatc tcgcaac 377

<210> 19087
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-014-Q1-K1-F10

<400> 19087

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tagatccgag cacaagcagg ccccgatggc gacgacggcg acgaaccggc gggatgatcct 120
caaggagtac gtggagggat acccacgcga ggagcacatg gagctgctcc ggggcgcca 180
ggttccccctc cgcctgacgg gcgcgagcc ggccgggtcc gtcctcgta ggaacctcta 240
cctctcctgc gaccttaca tgcggcccaa gatgtcgcg ccgctcgagg agtcctacac 300
ggccgccttc gtccggggcg acaccatcac gggctacggc gtcgcgcgcg tggctcgactc 360
cttcgacccg cgcctcgcg ccgngacct cgtctggggc atcaccggct gggaggacta 420
c 421

<210> 19088
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-014-Q1-K1-F11

<400> 19088

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atcccgccac cccaaccgat ctgccggcct ccagcatggc ggcggcgggc ggggcgaggg 120
cgagggcgaa ggcagcggga gccctggcg tggcgctcgt gtcgcgcta gcgggggcca 180

actccgaggg cgacgcgctc tcggcgctgc gccgcagcct cagggacccc ggcgggcgtgc 240
 tgcagagctg ggaccccacg ctcgtcaacc cctgcacctg gttccacgtc acctgcgacc 300
 gcgacaaccg cgtcacccgn ctagatcttg gtaatttgaa cttatctggt catctggtgc 360
 ctgagctggg ganattggag catctgcagt acctggaact ntacaagaa 409

<210> 19089
 <211> 219
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-F12
 <400> 19089

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 ttattgctca tggtgcgcgg cttccacgcg tcgagtaat gtagaagtcg ggtgggcagg 120
 tattctcata ccgtcattag tggatcattg aatttttctg taagaagggtt attgcaatgc 180
 accttctctg gccatgaata acacaaagga gacctgctt 219

<210> 19090
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-F2
 <400> 19090

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 cggaagggga agatactgtc ggaatcggca tttcccctc cagtccttg ctctaccacc 120
 agcagcgacc gttgtcgaag gaggccgtgg ttggggggaa gtgccgaacc ggaagacgta 180
 aaggcgtctt ccaatcttcc aaccccctgg gttgccact gtgcctagtc tctagttagt 240
 cgagaacctt aaaatgggtt aaataaacac atgggagtcc aagaagattc taggccttcc 300
 ggggccctgg gtggcctata cagggtagag tttgtgggcc ggtcaatata cagtgatgac 360
 gaagcagtca agactagcat tatggattc 389

<210> 19091
 <211> 418

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-F3

 <400> 19091

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 taatggccgc tcgctcctcc tcctcccagc cgcagctggt cgcggcggcg gcggtcctgg 120
 cagcggcgct gctgctgctg gcggcggggg ccgggacggc gtcggcgggc gtgagctgcy 180
 gcgaggtgac gtcgtcgggt gcgccgtgcc tcgggtacgc gatgggcagc gcggcgctgc 240
 cctccgcggc gtgctgcagc ggggtgcgct cgctcaacag ccgcgcgtcg tcggcgggcg 300
 accggcaggc cacctgcaac tgcctcaaga gcatgacggg ccggctcggc ggcggcgtca 360
 gcatggccaa cgccgccaac atccccggca agtgcgggcgt ctccgtcggc gtgccccat 418

<210> 19092
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-E11

 <400> 19092

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 ggcggcagca ggcaggcatc atgtcggagg agaagcacca ccacttcttc aaccaccaca 120
 agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag gtggtcaccg 180
 acaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac aagcacaagc 240
 agcacctcgg cgaggccggc gccatcgccg ccggcgccct cgcaactctac gagaagcacg 300
 aggcaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag gtcgctgccg 360
 cggcgccggt ccgcgccggc ggctacgtat tccacgagca ccacgagaag aagaaggacc 420
 acatggacgc cgaggaggcc 440

<210> 19093
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-C5

<400> 19093

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gccttcactg cgggtgagcgg ggtttctcgt ttctgtgaaa atgaatatcc ttggagatac 120
tccaaggagg aagaaattcc catcgaagaa tttagaaaa ggaatttcac ctatctactg 180
aatgagcacc gctccatcgg tggtaccag tgctgttcg ctgtggatgg attctccaga 240
gtaaaactta cgccccaaat cccccgcctc tctctggtga aagaaccaa ggtgtttgca 300
catgggaata cgagagaccc tgacattctt tctactgagt ggcccggttg tccttgaggg 360
catggggaca ccggacaccc agattcctgt ggcaggacca ctaactgcca gcagtgaaga 420
tgtgtttgag tcagtcgcg tgacaca 447

<210> 19094

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-C7

<400> 19094

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tcgatccaca tcggccaggc cggatatccag gtcggaaacg cgtgctggga gctgtactgc 180
ctcgagcatg gcattcaggc tgatggtcag atgcccggtg acaagaccat tgggggaggt 240
gataatactc tcaacacctt ctttagagag actctcgcct tgaaacacgt gccccgtgct 300
gtgtttgttg acctttagcc cactgtcatc gatgaggtga ggactggcac ctatcgccag 360
ctctctcata ttct 374

<210> 19095

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-C9

<400> 19095

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 acgacgacga cacacgcgac tgcagggcgc gtttcgcat cgaatctccc ttcttcgccc 240
 ctgccagagg gttttctgca gagactcttg ctccaagaaa ccaggatgtg ggcttatccg 300
 agtccccagc aactgtggca gctgtgaaga atccaagtgg aaaaatcgtg tatgatgagt 360
 ataaccatga gcgctacccg cctggagacc ccagcaagcg tgcatttgcc tactttgtgc 420
 tgagtgg 427

<210> 19096
 <211> 270
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-D1
 <400> 19096

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 caccgccggc ccggccaccg caccggcgc caccaccacc ccaccggcga cccgtccaa 180
 gaagacgccc gcgccagccg cggcgccgcc caccaccccc gccaccctgg ccccgccgc 240
 cgcgccgtcc accacccctg ccacccccga 270

<210> 19097
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-D10
 <400> 19097

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 catcatgagg acgcacatga ccacgaggag tttgagttcg gtgaagtttt tgttcaccaa 180
 ctgattcaca cgatagaatt tgttctgggt gcagtctcaa acaccgcttc ataccttcgt 240
 ctttgggctc tgagtcttgc aactctgag ttgtccactg tattctacga gaaagtacta 300

atgacggcat atgggttttaa caatgttttc atccttatta ttggtgtcgt catcttcac 360
 tttgccacga ttggtgtcct gcttggttatg gagaccctga gtgcattcct tcacgcgctg 420
 aggcttcact ggggtgga 437

<210> 19098
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D11

<400> 19098

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 acggccctcg tgtggtcggc ggtgggtggcg gtcgcgactg ttggtgtcgcg ggcgcacatcat 180
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 cacgactgct tcgtcagggg gtgcgactcg tcggtgctgc ttgactcgta tgccgggcaac 360
 caggctgaga atgacgcggc tcccaacgcc agtctgcgcg gattcgaggt catcgaca 418

<210> 19099
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D12

<400> 19099

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 gccaccgcgg cgacagcggg tgccagggcg ctttctacac ctacgacgcc ttcattcgagg 180
 ccgccagcaa gttccccggc ttcggcacca ccggcgacga gcagacgcgc aggcggggagc 240
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 atggaccgtt tgcctgggga tactgccggg tgaaggaaca gaaacagacg gaccaccct 360
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<210> 19100
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D2

<400> 19100

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ccgatctttt ctactactgc tccttccaca tgctctcatt cgacgagctc accctgcaac 120
ttgatacctc ccatctacag ttcctgatgg agatcgccaa cccct 166

<210> 19101
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D3

<400> 19101

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gtcactatca acttccgggc tgatcgcatg gttatgcttg cgaaagcact agagtatgca 180
gattttaaca actttgaccg tgtacgtgtc cccaaaattc gatatgctgg gatgcttcag 240
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acatctgggg agtacttggg gaagaatggc atccgcacct ttgcttgagc tgagacagtg 360
aaatttgccc atgtcacatt tttctggaac ggcaaccgct cgggatactt tgatgaaact 420
aaggaagagt atgtaga 437

<210> 19102
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D4

<400> 19102

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gcagacttct tctgacttcg ttgagaagca agtaactgag tcttcagaga gggaatgctc 180
agaaagtgag actgaagagg atgctgaact tctgcaaaat gcaagtgtga ttctacctat 240
agaatcacat gctcctgata cgtattctgt tccaatatat gagaagttca agcatgtgga 300
ttatggtgac aatgaggtgg cctattctaa ttatatgccc cagttgaatg aatctgagga 360
agaggatggt tcttctgagc tgggtgtctc tcagtggcac atgaaaggta aacgtaacaa 420
tcgtaatgcc acaaagaga 439

<210> 19103

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D5

<400> 19103

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ataaagtctg cctgctcggg tgtggtgttc ctactggtct tggagcggtg tggaatactg 180
caaagggtga atctgggtca gttgttctg tttttggcct tggaacagtt ggacttgcag 240
ttgctgaggg agcaaaagct gctggtgctt ctcgagttat tggcattgac atcgacaata 300
aaaagtttga tggtgcaaag aactttggag ttacagaatt tgttaacca aaagagcatg 360
acaaaccgat acagcaagtc ctggtcgata ttacaaatgg cggcgtggat tacagctttg 420
agtgcattgg aaat 434

<210> 19104

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D7

<400> 19104

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atgctctgcg gctcggtcac cttcatgctc ggcttcttcc tcatgccctg ggttgtcggg 120

ctcgggtttcc tcttctcttt cgtcgggttc atcaccaacc tctccgggat ctggagggac 180
atcatcctct ggccctccgt cgcgtgctcc gcacggact caccaagga ggcaccctcc 240
ccatggcata tgttttccaa gccttcatcc atgtcgacgt gaagccaagt acaaagtaag 300
gctccacagg aggtccacag aagcagggag ttgctggagc agcagccatt gccaacctat 360
attttccttc ctggacaacc cttctttttac atgtgacacc gtagcaagtt gccaaagtttt 420
aatgggtttt g 431

<210> 19105
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D8

<400> 19105

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tcttcggcat actggttatt tctctgagga gcagacttct tctgacttcg ttgaacaagc 120
aagtaactga gtcttcagag agggaaatgct cagaaagtga gactgaagag gatgctgaac 180
ttctgcaaaa tgcaagtgtg attctaccta tagaatcaca tgctcctgat ccgtattctg 240
ttccaatata tgaaaagttc aagcatgtgc attatggtga caatgaggtg gcctatttcta 300
attatatgcc ccagttgaat gaatcttaag cagacgatag ttcttctgag ctgggtgcct 360
ttcagtggca cat 373

<210> 19106
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D9

<400> 19106

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ccgggccgga gaggaggatg gtgggacgag gagcggcgac ggccctcgtg tgggcggcgg 120
tggtggcggg cgcgacgggt gtgtcgcggg cgcagcagct gcaggtgggg ttctacgaca 180
cgctgtgccc ggcgggcgag atcatcgtgc aggaggaggt gagcaaggcg gcgtccggca 240

accccggcgt cgccgcgggc ctccctgcgcc tccacttgca cgactgcttc gtcaggggggt 300
 gcgacgcgtc ggtgctgctg gactcgtcgg cgggcaacca ggcggagaag gacgcggcgc 360
 ccaacgccag cctgcgcggg ttcgaggtca tcgacagcgc caagacgcgg ctggagcagg 420
 cctgct 426

<210> 19107
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-C3

<400> 19107

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 tggagatact ccaaggagga agaaattccc atcgaagaat ttgagaaaag gaatttcacc 180
 tatctactga atgagcaccg ctccatcggt ggctaccagt gcctgttcgc tgtggatgga 240
 ttctccagag taaaacttac gccccaaatc ccccgctct ctctggtgaa agaaccctaaa 300
 gtgtttgcac atgggaatac gagagaccct gacattcttt cactgagttg gcccggttgt 360
 ccttgaaggc atggggacac cggacacca aattcctgtg gcatgaccac taactgccaa 420
 cagtgaaaat gtgtttg 437

<210> 19108
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B10

<400> 19108

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 ataatcagca gccagtgtgg tacttcaatg acaaaattcc gctgcatgtt ttctttggtg 120
 aagatggaaa aatggaacga gctggttttc ttgaggcctg gaaatctttg cctgatgaca 180
 atgaatttac aaaggaattc cggggctctg tcacagcag catagatgct actgttgagc 240
 gcctcgtagc atcaaagtgt ttcttcatag ccaagcggaa aaatgcgaac atggatgttc 300

tgtatctctc cgcaagatg ccccgaggaa tccccctcct tatagagggtt acagccgtgg 360
 ttggtgttcc tgggtgtgaag tgtgcagtca aaacaccaa tagggagatg gttcctctc 419

<210> 19109
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-B11
 <400> 19109

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 cctcgcaggg gctcttggtc tgctgagaat ctcatatatac aagggttatg tggatggcac 180
 aacaaccatg tcgactcatg agaggaaagc cagcatcaaa gaattctatg ctgtgatatt 240
 tccttctttg ctgcaactgc aaagggggat cactgatgtc gaggacaaga agcagaaggc 300
 cgtatgcatg gagaagtaca gaaagaaaga tgacgatgga cgggacacct tatctgatat 360
 tgatgttgaa agggaagagg agtgtgggat ttgcatggag atgaacagca aa 412

<210> 19110
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-014-Q1-K1-B12
 <400> 19110

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 ggccgccctt ccccgctctc tcgccggacc ccgagtccga cgcaaacagc ttcgtgcgtc 180
 cgcgcatgga ccggccccgg gagaccgccg cgtcgtcctt cttggggctc ggcttccacg 240
 acggggaaga cgacgagtgg gcaccacccg acgaggatgg ggagctcggg ctgccccctc 300
 gctgggactg cctgcagctg gaggaccacg acgacgacga ccaccgaagg tgggacgtcn 360
 gcgtcagcg 369

[illegible]

<400> 19111

<210> 19112

<212> DNA

<213> Zea

<400> 19112

<210> 19113

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B4

<400> 19113

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aagccaagca gggtactttc cacaggaaga agaactctga gtactatgaa atttctgcca 120
agagcaacta caactttgag aaacctttcc tgtacctcgc aaggaagctg gctggtgatc 180
cgaaccttca ctttggtgaa gctggtgctc ttaagcctcc ggaagttacc atcgacatgg 240
ctatgcagca gcagcatgaa gctgagcttg ctgcagcagc tgcacaacct cttcctgatg 300
acgatgatga tctgattgag tagaaaggat catgagtctt gaacttgagc aggagttgtg 360
ccttgcggtg ttttaagttgt tctaggggtga actccttgagt tctcattgtc tggatcatct 420
ttttctcctt ggat 434

<210> 19114

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B5

<400> 19114

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tcagcggcgg cgagaagagg cgggtcagca tcgccttgga gatcctcatg aggccccggc 120
tgctcttctt ggacgagccc accagcggcc tcgacagcgc ttcggcggtc ttcgtgacgc 180
agacgctgcg ggggctggcg agggatggcg gccggaccgt cgtagcttcg gtccaccagc 240
cgagcagcga cgtcttcttg ctgttcgact gcctctacct cctgtcagga ggcagaacag 300
tctacttttg caaggcttca gaggcttgcg agttcttcgc gcaagctggg ttcccgtgcc 360
cgccgatgcg caaccgctcg gaccatttcc tgcggtgcat aaactcggac ttcgacaggg 420
tg 422

<210> 19115

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B6

<400> 19115

ggctgggagg cgctaccgga agagttggta gagtccaaag aataaacaag aggggtgtgtg 60
gtgatctgtg catccgggtc acagttgctg gatggagatt atcagaaaac gtgttgaact 120
tggtgagctg cacaaggtac ttgaacttct agaccgagca tctttgaaac acagcgtgtt 180
cctagaggaa gaagaagcac acagcttggt tgaacttgta tctgctctgg actgcttcat 240
ggcccttaaa actgtgttgc tactcccaca tgaatctctg agactgcagt gcctgcagat 300
ggcggagggtg aaaatgaggg aaggaatcgt gtccacctca tcaaagtctg atgatcagga 360
gcttcttgcc ttggttcttt cctctggaac tatgcacaag atcatcacag aagatgcata 420
ctctaaaatt ttctcttaca tat 443

<210> 19116

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B7

<400> 19116

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gatgctcgat cttactttat gaccttgga tactgggaag atttattttg taagctaaat 120
gagatgagaa gatataggag aatagttggg tctcttgagg gctcttggtt atcagctgcc 180
atcccacttc tctcttccaa taaggaaaca gcatgccttg tggcccttga cattgtggag 240
agtgtgcta tatctattgc caatgttgag gaggttata agtgtgaatg tcaaagcaaa 300
ggagtcattg aggaggccat ccagttttgt tcatttgacg agcttcttga tggtagagat 360
gccaccgaag atgttgatga aaataggcta ctcccagcaa tgaacaaact gtggccttac 420
ttggttatct gtctaa 436

<210> 19117

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B9

<400> 19117

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tcacgatgcc gccagccccc aagtcgggcg acgccctctt cgccagcgtg gatcgcgta 120
atgcggagct gttcacgctc acgtacggcg ccatagtgcg gcagctgctc acggatctgg 180
aggagggtcga ggagggtcaac aagcagctcg atcaaaggg ttacaacatt ggaacacgat 240
tggtcgatga gttcttagca aagtcaaatg tatcaagggtg tgttgacttc aaggagactg 300
ccgatgttat tgcgaagctt ggcttcaaaa tgttcttggg tgtgactgca actgtgacca 360
attgggatgt tgagggtaca agttgcagca ttgtcctcga agacaaccct cttgttga 418

<210> 19118

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-C10

<400> 19118

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acagcacatc attggacggg ctgttggtta tctgccttat gctgggtggc ttacaatcgt 120
catgacggag aaaccagtcc tcaagtatct gctaattggt gcactggggc tgctggtggt 180
agcatccaag gagtgcgtt aaaggtagga tcgatgaaca ggagaaaaga tttccgagag 240
gggaaa 246

<210> 19119

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-C11

<400> 19119

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tatttgaggg agcacttggt tgataacctt ctcaagcacc ctgatttctt gacagatata 120
aagcttgcca taagtgaac atatcagaaa acagatacag atttcttggg atcagaagca 180
agcgctttca gggatgatgg ttcaacagct tcaactgcac ttttggtggg tgaccattta 240

tatgttgcaa atgttggtga ttctcgtgcc gttatttcaa aagctggcaa agctatggcg 300
ctttcagaag atcacaaacc taacagaatt gatgagcgaa agagaattga aaatgctggt 360
ggatttgtca tttgggctgg cacttggagg gtgggtggtg tattggcaat gtcccgtgca 420
t 421

<210> 19120
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-014-Q1-K1-C12
<400> 19120

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gcaactcttt ctctcctgca ataatggccg ctgctcctc ctctcccag ccgcagctgg 120
tcgcggcggc ggcggtcctg gcagcggcgc tgctgctgct ggcggcggtg gccgggacgg 180
cgtcggcggc ggtgagctgc ggcgaggtga cgctgctggt ggcgccgtgc ctcggttacg 240
cgatgggcag cgcggcgctc ccctccgcgg cgtgctgcag cggggtgctc tcgctcaaca 300
gccgcgcgtc gtccgcggcg gaccggcaag ccacctgcaa ctgcctcaag agcatgacgg 360
gccggcttcg cggcggcgtc agcatggcca acgccgtcaa catccccggc a 411

<210> 19121
<211> 436
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-014-Q1-K1-C2
<400> 19121

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agagaagaat tataatacct ccagagcttg gtcctcctgt tgggccttcg acgttcttca 120
gtgcgaagca gttcgaagtg ttcgatgtgg agttactggc ggtgcaggac tgccagcgga 180
ggacgatagc attttactct gatgtcgtgt gcagctgaac ttcggtttgt ctagtcttcc 240
gcctatggca catcgcagca gcacctgca cttttggctg ctggtctgag ttgccgtcca 300
attgtgtgta tgtatatagc cagctgttgt tactgcggct actgatgatg ggcaatggta 360

gtgtgttatt agttcattnt tgtcttgaat ctctgatgg cgggatatgc gcatttggtg 420
tgtctgttta gaagtt 436

<210> 19122
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A8

<400> 19122

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ggggacccga cccctggctg acgacgtgct ggcaaacct cctcctagtc ctctgcaga 120
aggaggctgt gttcttttct tcatcggcgc ggcaacagcg aaagcttctc ggtctctccc 180
accgctgctc cgccgtttgg gtggttccgc gccttggcgc cgcgggttgg atccgagctc 240
cgtgcagcag ctccgccgcg atacgtatcg cataggattc cactggattc agctgctgag 300
cagggtactg gaaggtggat ttgatactag ctctgaacag ccagtagaat ttctcaaata 360
ctgtccagga tcatggcttc tctctgcgat ttctgtggga aacaaaggtc aatgatctac 420
t 421

<210> 19123
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H10

<400> 19123

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cggcaagatc caaaattaat tgtccctgc ccgcgcgcgt cggggccggg cgcaaagcgg 120
caaagggatc atcggatggc ggtgttcgca ggggcacggg cacggccgct gctgggcgcc 180
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gaccagctcg ttgactgat caacagcaac cgtaccgccg gcaagtccgc ttccgtttct 300
gacaaccaag gcttgggatg catcgtctg cagtacatca aagcgtacga aggtcactgt 360
gaccagggtg acgacaagaa gccgatggag tcgagtttca cggacacggt cgccccgacc 420

tgtggcg

427

<210> 19124
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H11

<400> 19124

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tggcgtccga gcagggagtc gtgatcgct gccacagcaa ggctgagttt gacgcccaca 120
tgaccaaggc ccaggaagcc ggcaagctgg tggtcattga cttcactgcc gcctgggtgcg 180
gtccatgccg cgccatcgcc ccaactgttcg tcgaacacgc caagaagttc actcaggtcg 240
tgttctgaa ggtggacgtg gacgaagtga aggaagtcac cgcggcctac gaggtcgagg 300
cgatgccgac cttccacttc gtcaagaacg gcaagacggt cgcgaccatc gtgggtgccca 360
ggaaggacga gtcctgggcc cagatcgaga agcatgctgc gcctgcgcct gcgtctgcgt 420
ctgcctaaag gagatcagat cagtcgtcgc cg 452

<210> 19125
<211> 205
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-H12

<400> 19125

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ctagctcggg cggcagcagg cagccatcat gtcggaggag aagcaccacc acttcttcaa 120
ccaccacaag aaggacgagg agcagccccgc cggcgagtac gggacttccg agaccgaggt 180
ggtcaccgnc accggcgagg gcgag 205

<210> 19126
<211> 481
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-H2

<400> 19126

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gagttgttgc agaaggatgg cgagttgcag aagaggcaga ctgaatcgct gaggcagcaa 120
tgcaattgca ctctccattg aaagttatgc aagattaagg acatggaagg agtttttcag 180
cttctttggc ggattagcta tttttttcca acaccaaggg aggaaaacca gattgagttc 240
taggaatgag aactggcata tgaaaatgat tgagaacata tatagtgtat agaccatagt 300
gttcgtcctt tataccaatg gtgagctgca cagttcatcc aaagtgatcg gtgggaactt 360
cattggtgac aatgcaaagc gcagaagtca aaacgtaaaa gatggcgcca tatggttata 420
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g 481

<210> 19127
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H4

<400> 19127

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cacgctgggc acccgcaagt tcatgaccaa ccgcctcctg gcccgcaagc aattcgtgct 120
tgaggtgatc caccocggcc gcgccaacgt ctccaaggcg gagttgaagg agaggcttgc 180
caaggcgtac gaggtgaagg accccaacac catctttgtc ttcaagttcc gcaccactt 240
cggaggagga aagtccactg gtttcggcct catctacgac aacctcgagg ctgccaagaa 300
gttcgagccg aaataccgcc tcatcaggaa tggctttgct actaagggtg agaagtcccg 360
caagcaaatg aaggagcgga agaacagggc caagaagatc cgtggtgtca agaagaccaa 420
agctggtgac gcctggaaga tgtaaactgt cgtttacatt tgtatt 466

<210> 19128
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H5

<400> 19128

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agctggggcg gcagcaggca gccatcatgt cggaggagaa gcaccaccac ttcttcaacc 120
accacaagaa ggacgaggag cagcccgcgc gcgagtacgg gtactccgag accgaggtgg 180
tcaccgccac cggcgagggc gagtacgaga ggtacaagaa ggaggagaag gagcacaagc 240
acaagcagca cctcggcgag gccggcgcca tcgccgccgg cgccttcgca ctctacgaga 300
agcacgaggc gaagaaggac cccgagcacg cgcacaggca caagatcacg gaagaggctcg 360
ctgccgcggc ggccgtcggc gccggcggct acgtattcca cgagcaccac gagaagaaga 420
agaccacaag gacgccgagg aggccagcgg cgag 454

<210> 19129

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H6

<400> 19129

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gcagttttac ctcaacctgg ccttg gatag attgatatta cagattgtaa gttgtcaact 120
gtggtttgtc tatatctgga tgatgttttg agggaaggag catgccagaa ggatgccaca 180
ttgaggccaa ttaagtgcta gtcattctagg aattgagctt ccggaaaaga atttgaagtg 240
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gacggcatgt gatagctgca atgtgatctt atctgattca taggacgacg ccatatagaa 360
atgtcaagca tcgttttttc ctgtaattac atcaaattgg ccagttgtca ttgtgtatac 420
ttagtctatg taaagtatat caattcatat tttatgac 458

<210> 19130

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H7

<400> 19130

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tggggcagac ggaggagcag ttggtgccgg aggcaggccc ggcctcgggc cccgccccca 180
gtcctccaa gcaaggggac gccgacacgc cggccggcct cgacgccgac ctggaggcgc 240
tcctgcagcc gcacggggcg ttgctcggcc gccgagccgg ccggcagtgg agggccgcgc 300
tgcaaagcat cgccgaaggc aaagggtaaa ggggggc 337

<210> 19131

<211> 478

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H8

<400> 19131

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tttgatagtc cgtcgccctct gcgttcttct gggtgctgaa aaagtatatc gtgagttctc 180
cactattctt gagagtgaag ttgaccttga ttttgcattc gtcattggtc aggttttgaa 240
tttgattttg ctcacatcaa ctgaacttgg tgagctccgc tctcttctta agaagtcggt 300
agtggattcc tgtggcaagg acttgtttca gtcattatat gcttcgtggc gccactctcc 360
gatggctaca ataagtttgt gtttacttgc tcaggcatac agtcattgca gctgtgttat 420
tcagtcgctg ggagaagaag acataaatgt gaaattdttg gttcagttag ataaattg 478

<210> 19132

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A10

<400> 19132

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gtcctccgc ctgccagccg cagctggctg cggcgggcgc ggtcctggca gcggcgctgc 120

tgctgctggc ggcgggggcc gggacggcgt cggcggcggt gagctgcggc gaggtgacgt 180
 cgctcggtggc gccgtgcctc gggtagcgga tgggcagcgc ggcgtcgccc tccgcggcgt 240
 gctgcagcgg ggtgcgctcg ctcaacagcc gcgcgtcgtc ggcggcggac cggcaggcca 300
 cctgcaactg cctcaagagc atgacgggcc ggcttggcgg ggcggtcagc atggccaacg 360
 ccgtcaacat ccccggaag tgcggcgtct ccgtcggcgt 400

<210> 19133

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A11

<400> 19133

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 ttctcgttta caaatctgtc aagtggccaa aatgctttca ccggtctgac tggaactgga 120
 ttttcaagca cgtcattctc gtttggctca gcctctacag atggcccaag tactgggtccc 180
 ctgttcgggc tgaaagctga tggttcttcg ttcccttcct ttagtcttgg tgctgccagc 240
 aacgggagtt ccgccacagt gcttgctacc tcagcagaag cacccaagaa atttgctatg 300
 gcagaaggcc ctgtcgaaac cggcgaagaa aacgagaagg ctgtatttac tgccgattct 360
 gccttgtatg agtacctaga tgggggctgg aaagaaagag gaaaagggtga actgaagctg 420
 aacg 424

<210> 19134

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A4

<400> 19134

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 gaacagacgg cggctagcac tagcagcggc gagcatcagg agaggagcgt cgtcgaggac 120
 aggcggctac agccggtggg ggagaacgag gaggcggggg aggaggagga ggagttcagg 180
 gacatccacg cgctgagccc gccgctgagc cagccttcgt cgtaccgccg ga 232

<210> 19135
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A7

<400> 19135

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gctgtttccg acaggatggt tctcacgagg acggagtacg accgtggggg gaacaccttc 120
tctccggagg ggcggctggt ccaggctcag tacgccatcg aggccatcaa gttgggatcc 180
actgcgatcg gtttgaagac aaaggatggt gttgtcctcg ccgttgagaa acgtgtgacc 240
tcaccactgc tggaaccaag cagtgtggaa aaaataatgg aaattgatga gcacataggc 300
tgtgccatga gtggacttat tgctgatgct agaacactag tggaacatgc tcgtgttgaa 360
actcagaatc ataggttctc atacggagag ccaatgactg tagaatcttc gacacaagct 420
atc 423

<210> 19136
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H1

<400> 19136

ggcaggccac aaaggatgct ggggtgattg ctggcctcaa tgtgctgcgt atcatcaatg 60
agcggggcgc tgctgctatt gcctatggtc ttgacaagaa ggcaaccagt gtcggtgaga 120
agaatgtcct cttttttgac cttggagggtg gtaccttcga tgtctccctc cttacaattg 180
aggaaggatc ctttgaagtc aaggccacag ctggcgacac ccatcttggt ggtgaggact 240
ttgacaacag gatgggtaac cactttgtcc aggagttcaa gagaaagaac aagaaagata 300
tcaactggcaa cccg 314

<210> 19137
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F4

<400> 19137

cgagggcagg gtgccgtctt tctgggggat caccgccgac ggctgcgtcg ctttctccga 60
cgacatcgac atgctcaaag gctcatgcgg caagtcgctc gcgccgttcc cgcaaggctg 120
cttctactcc aacgccctcg gaggggtcaa gtgctacgag aacccaagc acaaggtcac 180
cgctgtcccc gccgacgaag aagagatctg cggtgccact ttcaagggtg tggaagggtc 240
tactgtcctg acggcgctgc actgatcgat catcagctgg cggaggcgat gcgacgatga 300
tgcagaactt tgtacatgcg tgggtgggtgt gtaacatagt gtggctggca acaagccatg 360
ctcatgcaaa ccgatgaatc tatctctgta tcatgcatcg atctcggttg cttgctagtc 420
ccgactccag actccagaca tggctatata tagctggtgc taata 465

<210> 19138

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F5

<400> 19138

caacgtcgtg gtcaccggcc acagcctcgg cgccgcgctg gcgaccatct tcccggcgct 60
gcgtggcggt ccacggggag cggggcgctc tggaccgcct gctctccgtg gtcacctacg 120
ggcagcccg cgtggggcgac aagggtgttc cgggctacgt gcgcgccaac gtgcccgtgg 180
agccgctccg ggtggtgtac cgctacgacg tggccccg cgtgcccttc gacgcgccgc 240
ccgtcgccga cttcgcgcac ggcggcacct gcgtctactt cgacgggtgg tacaagggcc 300
gcgagatcgc caagggcggc gacgcgcca acaagaacta cttcgacccc aggtacctgc 360
tgtccatgta cggcaacgcg tggggggacc tcttcaagg cgccttctg tgggccaagg 420
agggcaagga ctaccgcgag ggcgccgtct cgctgctcta c 461

<210> 19139

<211> 478

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F7

<400> 19139

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aagccgtaca ttacccgctg acattttctca ttgcacactg atctatatgt acaccatgga 120
agaacatgac aaatacaaaa aggcataagg ggttccttgt ctatgccttc tatgcatatg 180
caaaacgcat ccgaacagat attcgcagat ttctcttcca caagcaaact cgcctcctc 240
tcctttcagg agaactgcct cactgtgccc aaacgggccc tttaatttcc cttgccattc 300
tcagtccaca cgctgtccca cgagttaact ttcgggcgct caacaagctg ctggcctcgt 360
ccctccgatg atggagctcc tgggccctta acacgctct tctttggtt tcttttgatc 420
cccagcaaac gtagaacaaa tcttgcaagc tcaccataaa gcattccagc ccgatcac 478

<210> 19140

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F8

<400> 19140

gtgaggcgtg agcgccacac ccacacgaag gatcccgaag ccgaagagaa ccctaccgag 60
gaggcagaaa atccgtaggc ggcctcata cgattccgag atccgtgcct cttatcggca 120
gccatgatgc tgcgcgcggc gggcaggcga ctctcggcg taggaggcgg cgatccagcg 180
cccgcggtcg ctgctgctgt ggcggcgagc aggagcagag gataccacga gcgggtggtg 240
gaccactaca acaaccgcg caacgtgggg tccttgaca aggacgacac ggacgtcgga 300
acgggggatcg tcggcgcgcc ggcgtgcggg gacgtcatga agctgcagat ccgcgtcgac 360
gaggggtccg gcaggatcgt cgacgcgcgc tt 392

<210> 19141

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F9

<400> 19141

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cgctccgcag ccgtgggcca cateccgcgc ccgaaccctt ccgcgccgcc gctgcgcgag 120
gccgtggcgc cgtacgagge ggcgctcgac gacctccagc gccagctcca gtccaagcag 180
ggccaagggg gccgcgctca agaagaaact cgcggcgggc aacaaccgc ggaaccggcg 240
ccaacaacac gttccggcct tcaagcagaa cggcgggcgcg ccgacggcgg aactcttcaa 300
caactgcgcc gagcaagccc gcgcggcgac gccggccttc gcggggcacc tcgggcacct 360
gatgcccccc ggcg 375

<210> 19142
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-G1

<400> 19142

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attggcttcc ttttctacg gaactggggc ctttgcccca ggtcgggtgct cacctggact 120
agactgtgcc tacccaactg ggaattcact cgtcgagcct tacactgctg gccataacat 180
tctcctagcc cacgctgagg ctgttgatct ttacaacaag cattacaagc gcgacgacac 240
ccgcataggg cttgcgtttg acgtaatggg tcgtgtgcca tacggaacat cgtttctgga 300
taaacaggcc gaagaaaggc cctgggacat caacctagga tggttcttag agccagtggc 360
tcgtggtgac tacccttctt ccatgagatc attggctagg gaacgactac ctttcttcaa 420
ggacgagcaa aaggagaagc tcgccggttc ctataacat 459

<210> 19143
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-G10

<400> 19143

ggcagaacta gggaactccg actcgagagg gttgttcata aactcatgct tcgtgcagtg 60
ccagtctgag atacaggagc tatggttctc atctgactcc cccgtgctcg gaaacacaac 120
agtagcaaac gctgttggcg actggttctt cgaccgcagc tccttccata agatagactg 180

cccataccct tgtgactcga cctgtcacaa tcggatctac gatgactcat cacaagcata 240
gcaattacag tgggtctcact tcgtactgcc attcaccatg ttactccatt acatttgacg 300
cttccagcat tgctaacagt agggcaatgc gttgacagcc attgattttt ttttcttttt 360
acgaataaga tcaggtgccg gcggtcttaa ctcggttgct accggaaagt gagcgtgcat 420
cttccgacgg tacatggcat 440

<210> 19144
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-G2

<400> 19144
ctcgctagca ctagcatagt cgtctctttc ttttctgctt ccagacattg tccacacgag 60
ctagggcact ggtgtcgctc gcaaccaaatt taaggacgta ctgagccatg gcatccaagg 120
gcgctcctctt cttggctctc aacctcctgt tcttcacagt ggccaacgcc tgcggcagct 180
gcccgaacccc aacgcgcgcg gtcgtgccac cgccgcgcgc tctgctgct accccacccc 240
cttcatcatc cagtgggaag tgcccgtga acgcgtcaa gttcggcgtg tgcgtcaatg 300
tgctcggcct cgtcaaaggc gaggtctggc aggtaccagc tgagccatgc tgcaacctca 360
tcaaaggcct tgcagacttc gagggcgcgc tctgcctctg cacggccatc aagggaacg 420
tntcggcgt cgtcttcgat gtccctatca agttcaatgc cctcg 465

<210> 19145
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-G3

<400> 19145
ctcaggtcgg gaacgcagag gcgggggcaa caagaaggcc gggcgagaag acaagaggaa 60
gccggaagga gaacgagttc ggaagggagc ggatggcaat ggctctgctc cagctattgc 120
tgctcgtcct catcgtctcc tgcgcgcgc agtcgccgta cgcgtcgaag gtcctccgc 180

tcagcgctc ggcgcgggg ggctctgtcg cgccaccgac aacggcggtc tcggcgccgc 240
aggcgtctgc acagccgccg acaacagtcg ccgcgtctgg gcctcaggcc tcggccgtag 300
caccaacaaa agcagccttg ggcgcacagg cctctgtctg gccgccaact acagctgcct 360
cgccgcagct ggctgccacg ttggccccgg tttcctcacc gccactagct gctgctgcgc 420
cacctgcctc cgctaccctt ccaaccacgc caccatcggc aac 463

<210> 19146
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-G4

<400> 19146

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cgggtggcgga ggcagggggcg ggcggccgcc cctctgggtc aaggagcgcg accacgagtg 120
gtgggaccgg atgagcagcc ccgcgtgccc cgaggacgag ttccgccgcg ccttccgcat 180
gtcccgggcc accttcgagg ccgtgtgcga ggagctgggc gccgccgtcg ccaaggagga 240
caccatgctg cgcgcgcgnea tccccgtccg ccagcgcgtg gccgtctgca tctggcgcct 300
cgccaccggg gagccgctcc gcctcgtgtc caagcgcttc ggctcggca tctccacctg 360
ccacaagctc gtcttcgagg tctgcgccgn catcaaggcc gtgctcatgc ccaaggccgt 420
gcagtggccc gaggcgcccc 440

<210> 19147
<211> 108
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-G5

<400> 19147

ggagagcgct ggtgttttagg accgcatgca ttcagaagct ctctgtgctg ctggccagat 60
gtgtcgttcg ttgtatcatg tatgggtgtt tctggcttcc gttctggg 108

<210> 19148
<211> 445

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-G6

 <400> 19148

 eggacgcgtg ggcggacgcg tgggcacagc ggccctcggt ggaggacgtg ctgtggaacc 60
 tgcgagttcg ccgcccaggt gcaggacgac tgggaggcgg atgcctggag cagcggcgga 120
 ggaagcccag tgctcgtcgtc gtccagaccc accaggccgt ctcggtctaca cttgagcaga 180
 tagatgatca ggtgcttcac caatctccag taaagcggtc acatgatcta cccatagtct 240
 accggggaca aggatctaaa gatgggaaat gctggtcagc ctacagtaca gcatctgcct 300
 ctgatgggat gctgaaaccc acagcaggat cagctcactg aaaactgtcc cccctgtggt 360
 gcagactaat gtgctntgcy ctggtgcaga ctaatgtgct ttgcgccact gtagagttct 420
 ttttgggggt ctcttataat aacgt 445

<210> 19149
 <211> 473
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-G7

 <400> 19149

 ggatgatggc ttctcttagt cctcagcgtg cagcggggcg cgccgtcgcc ggcgtgctgc 60
 tgggtggcggc tgccgcgctg tgctcgtgcy gcgccatggc gcagctgacc gcggactact 120
 acgactgcac atgccctgac gcctacaaca tcgtgaagca ggtcctgatc gaggcgcaca 180
 agtccgacgt gcgcatctac gccagcctca cccgcctcca cttccacgac tgcttcgtcc 240
 agggctgcga tggtcgggtg ctctggagc ccgttcgggg ggtggccaac tccactgaga 300
 agctggcgcc ggccaacaac aactcggcgc gggggttccc ggtggtggac aaagtgaagg 360
 cggcgctgga ggacgcctgc cccggcgctg tctcctgcgc cgacatcctc gccctcgccg 420
 cagagatctc ggtcgagctg tccggaggac caaaaggggc agtgcttctt ggg 473

<210> 19150
 <211> 430
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-G9

<400> 19150

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ttgctggagg tggcgacact ggaccatgcc agctgagctg gtgctccgtc gtgggtcgtg 180

gccaatatatt ggctcgcatg cagtcgtcga tctatatgga acagaacact gcatgcctat 240

gtagatacgc ttgtatggac aataaaggaa ccgcagtact tctgtcgatg aaatactttt 300

gggtgagctg gtaatctaag acaccaggcc tacaggttac ttgtaactgt aagctggagg 360

ccctagaagg ctaaggctag tggctaggga tggatccaga tttttatttg aatgctattt 420

tttggtcac 430

<210> 19151

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F3

<400> 19151

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cacggaagca ctacgcgtgc agctcgacgt gcagaggcgc ctccacgagc agctcgagat 120

ccagaggaac ctccagctga ggatcgaggt gcaggggaag aagctgcaga agatgttcga 180

ggagcagatg aaggcgagca ggaccgtgat ggagccacga caggaggagg aagatgatga 240

cgacgacgcg ttcgacgatg tgcacgtgca gctgctggcg accgcggccc gcagcgacgc 300

cgggttccag ttgaagataa gctagccttt ggccgtcgcg cgcctctagc tggctcgatc 360

ggctttgtaa tcgtaagggt taactacaaa taccagccta gtgacccatg gatagggatg 420

actacaatgt t 431

<210> 19152

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-D9

<400> 19152

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aaggcccttg tgctgatcaa ctacggcagc ggcagcgcgg ccctggacaa cctctccgcc 120
ttcaccacgc tgagcgggct gaggagcctg tggctggaga agatcatgct gccgccgctg 180
cccaagacga cgatcccgtg gaggaacctg cacatgatct cgctggtcct ctgcgagctg 240
aacagcagcc tgaggggggtc gacgatggac ctgtcgacga cgttcccgcg cctgtccaac 300
ctgacgatcg accactgcat agacctcaag gagctgccgc cgagcgtctg cgagatcggg 360
tccttgagga ccatctncat ctncaaactgc cagcacctca ccgagctgcc gtacgagctg 420
gggcgggctgc 430

<210> 19153
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-E1

<400> 19153

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gcttggcaca tgttcattgc ctggagctgc aatctatggc acttcaacta ggagatttgg 180
aggtttggag tttcagcaac ataaagttaa tcacatctca tttggtcgga aagcgtctgt 240
taaagcaaca ttgaaaactg tgagatgcaa tgccactcaa acacaaagcg tccaaaagaa 300
atcttcaagt gcaactattc agcgtgataa gaaaggaaat gtacaagggc caaaaactgga 360
tgacggaagc ggtgggttcc ctccattccg ctttggcaaa agtgggggtg gtgggtggagg 420
ccgnggaagt ggcagcaact actttggcgg atttcttctc 460

<210> 19154
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-E11

<400> 19154

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gagcagttca cgcgatgtt ccgcaggaag gccttcttgc actggtacac gggggagggc 120
atggacgaga tggagttcac cgaggccgag agcaacatga acgacctcgt gtccgagtac 180
cagcagtacc aggacgccac cgccgacgag gaggcgaggt acgaggacga ggaggagggg 240
gatctccagg actagaatag gctgcttcac attcagtcac cgtcagtcac gaaaaactaa 300
tcatttgctg cttttcgctg tcgtagtagt agtaggtcgg taatcatctg tcgtgggttt 360
gtttcgtttc tatcattaat cagcattagt agtagcagct gctgctgcgg gggcacaaca 420
cnaggngggg ataggaac 438

<210> 19155

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-E12

<400> 19155

cggacgcgtg ggcggacgcg tggggcctcg gcgtccccgc tcccggcctc caccgcgagg 60
tcttcgcca ggtccagctc gctgagcctg ggccggggga ccgccgggaa cggcccgcgc 120
cgtcttgccg cagcagcgcc cccacgggag ttcttctcat cgtcccccta ccagccgccc 180
caaccggagg ggttctcgcc acaccgggag tacggccttg tcccatggt gatcgaaacc 240
acctcccgcg gggagcgcg ctacgacatc ttctcgcgcc tgctgaagga gcgcatcgtc 300
tgcatcaacg ggcccatcgc cgacgacacg gcctcgcttg tcgtcgacac gctgctcttc 360
ctcgagtccg agaaccact caagcccgtc cacctctata tcaactcccc cgngnggtgtc 420
gtcaccgcgg ggc 433

<210> 19156

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-E4

<400> 19156

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ttttacgtaa atttaataat attaacttaa tatgcccatt ggtgttccaa aagtacctta 120
ccggattccc ggagatgaag aagcgacttg ggttgactta tacaatgtta tgtatcgaga 180
aaggacactt ttttttaggt caagagattc gttgcgagat cacaaatcat attacaggtc 240
tgatgggtata tctcagtata gaagatggaa atagcgatat ttttttgttt ataaactccc 300
ctggcggggtg gctaactctca ggaatggcga tttttgatac gatgcanacg gtgacacctg 360
atatatatac aatatg 376

<210> 19157
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-E5

<400> 19157

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gaactatttg aggagcatga agcaccggga tcaagatcct tttttacaga gataatagca 120
tcagtttcag atataaaaatt tgcaagggat ggaagacaca ttcttagtcg tgattatatg 180
acactcaagt tgtgggatct aaacatggat tcaggcccag ttgcaacttt tcaggttcat 240
gaatacttac gtccctaagct ttgtgattta tacgagaacg attcaatttt tgacaaattt 300
gaatgctgtc tcagcgggtga tggactccat gttgcaactg gttcttatag taatttgttt 360
cgtgtttttg gttgttctcc tgaaagcgtg gaggcacaa cggttgaagc cagcagaaat 420
cccatgaggc gacaggttgt tgatccagca aggctgcac gg 462

<210> 19158
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-E6

<400> 19158
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 cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 180
 ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg 240
 cggcggcggc ggcggggtacg gtggtggccg tggaggcggc ggctacggcg gtggcgggcg 300
 ccgtgatggc ggcgggcggt acggcggtgg cggcggtac ggtggtggcg gcggcggtta 360
 cggtggtggt ggcgggcggt acggcggtgg caaccgtggc ggcggtacg gcaactncga 420
 cgggaactgg aggaactgag cggtgggg 448

<210> 19159
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-013-Q1-K1-E8

<400> 19159
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 ctccgatctc agcaagatct acgtcttccg ggggaccaag gagatctcta aggaccagat 180
 tttggatcag cttggcctgg cgggtgctgg gcggccgggc ttccccaaga tgccacagca 240
 accgggcggg ccacaggtga atgggatgca tccgccgtcc acggccgggg tcaacagggtt 300
 cctgctcccg gtgtcagatt gtgagattgc tctcagcacg ttgctggacg agttgcagcc 360
 tgaccaatgg ccagtcgagg ctgggaaccg tgcgatccgt tgcactggtg ttgcgctcag 420
 tgtagctgct gggttacttg gtgcttgcat gcctggaa 458

<210> 19160
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-013-Q1-K1-E9

<400> 19160

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agaacatgcg tggaatttgc tttgaggtct gtgatgtcgt tcttcatgct gatgctatcc 180
acaggggtgg tggtcaggtc attcccactg ccaggagggt catctatgcc tctcagctca 240
cggccaagcc aaggctgctg gagccagtct acctggtgga gatccaggcc ccagaaaatg 300
cacttggtgg tatctacggt gttctgaacc agaagagagg tcatgtcttt gaggagatgc 360
agaggccggg tacccegcct tacaacatca aagctttcct cctgtcatc gaggcctttg 420
gtttc 425

<210> 19161
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-013-Q1-K1-F11
<400> 19161

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cttgcaatgg cggcaattgg agtgtcgcaa tcaagtacct ttacatcaga ttcttccaaa 180
gcaaaatcag ctgcattctt tatatttgca attgtagatc gaaaatcaag gatagaccca 240
agtgaggatg caggggtaac tggtgaggca ctacaaggaa acatcgtatt ccagcatggt 300
agcttcaagt atcctaccag gccagatggt cagatattcc gggacctttg cttgacaatt 360
catgctggaa agactgttgc actcgttgga gagagtggta gtggcaaata aacggc 416

<210> 19162
<211> 252
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-013-Q1-K1-F12
<400> 19162

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aactccaaca cactctacat atattactac ccaaccaaac caccacatc caataccatc 120

aacatcatct cctccaaata caatatatac cctattaact catcctatct ctcctcatca 180
tcacaaccct aatcaaacat actctatcct gattaacgaa cacataacat cataacaaac 240
tatcttaact tc 252

<210> 19163
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-D6

<400> 19163

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ccgccgctgg gtcattccacg tcgagcggat caccgcgag aaggtgaacg gctccaccgt 180
gaacgtgggc atccaccctt ccaaggtgat cgtcaccaag ctgaagctcg acaaggaccg 240
taaggcgttc ctgcaccgca agggccgggg ccgcgcgcc gacaaggcta agggcaagtt 300
tactgccgat gacgtcgtg ccgccgccgc tgggtgggcc gncaccggcg cctctctcca 360
ggagatcgac tagactcttc acggtcattt gatggttgtc gtaccgnctt ttcctcatct 420
cttttagttt tgctacaaa ttgtatgtga tagaggtctt a 461

<210> 19164
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C12

<400> 19164

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taactcaaga tatttgtctt ttggtaatat gatcgtctaa cttaaatttg cattcaattt 120
agactttagg ttatgttagt cataacaagc ttgaaaagac atattaacaa agaaagatca 180
tattagcagt tcatgttacg tttgcagata tggacctcgg tggttttctc tacattagaa 240
aagctggaag agccttttga actcagtttt tttgctacca gtggtgttat ggtgaaacag 300
agttttgtgt gtatgtacca acaactaaaa tgtaaacacg acattatcat agttgagtag 360

ataaataatt atctcttata tcttattgt

389

<210> 19165

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C2

<400> 19165

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gcgccgacgc cgaaccgcag cagacacgcg cgccgacagc gtacgaggga gggagctgcc 120
tgaggtagag gaggaggaga acatgcaggg cggcgggcgc gtggaccagc cgccgatgca 180
gatggtgctg cgggtgaggg acccgctctc gctggggcgc agcggggcgc acgaggacga 240
cggcgagggg tcctctaggt cggcgctctc ggtgttcaag gccaaaggagg agcagatcga 300
gcggcgcaag atggaggtcc gggagaaggt gttcgccac ctccgacgcg tcgaggagga 360
gtccaagcga ctgccttca tcaggcagga gcttgaagg atggccgacc ctacaaggaa 420
ggaggtggag tcgataagga agcggatcga cagggtgaac cgtcagctca ag 472

<210> 19166

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-013-Q1-K1-C3

<400> 19166

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tccgcaggaa tgggcagcag cgggcgtcgt cgtcgttgtt ctctctctcc tcctcttctt 120
ccttctctgt cggcaagacg ctgctgaggg aggcgaggg agcccggccg tcgttcgccc 180
tgcgcgccgc ggccgattcc gacaggccga tctggttccc cggcagcacc cctccgcccgt 240
ggctcgacgg cagccttccc ggcgacttcg gctttgatcc ctgnggcctc ggatctgacc 300
cggagagcct gcggtggaac gtgcaggcgg agctggtgca ctgccggtgg gcgatgctcg 360
gcgcggcggg tatcttcctc cccgagttcc tgaccaagat cggcgctcctc aacacgccct 420

tctggtacac cgcc

434

<210> 19167
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C4

<400> 19167

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gttcaccaac tcgttcataa cgcttatcaa tgtattgtgc ttgacaacta atctctttat 180
gacatatgct ttctcactct aaagctcgcc acccctacct ttggctacct gaaccatctc 240
atctctgcc aatgagttg ctttacatgc taccttatgt tcctgttca tctcaactct 300
taccttctca agcttgccat aaacctgac cttttccctc tccttcactt cttcat 356

<210> 19168
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-C5

<400> 19168

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cggctgggga cggccggcgt tcatgggccc cgcgtgctc cagttcagcg gcctcgtgta 120
cctcgtcccc ggcccggacg gcgacggccc cctcgacgtc gtcgtggcca tggagcccaa 180
gagcctggcc agattcaagg agctgttgta cgagctcaaa ggtgcaggtg ttccgtgcac 240
ggcagactga gctgctgcat tccgtgcagg ttccttggct ggctaccggc tggcaaaacg 300
aanacctgtt tgccggattg ttccttgcac tgcgtatcta cttcgacctt tactgcagta 360
ctcctagttn tctactcgtt gtttgtgatc gcaatctggt gagtactgta ctctatatgc 420
atntacatgg ctatctatat tattcggagc t 451

<210> 19169
<211> 460

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-C6

 <400> 19169

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 agcgagctcg ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc 120
 aaccaccaca agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag 180
 gtggtcaccg ccaccggcga gggcgagtag gagaggtaca agaaggagga gaaggagcac 240
 aagcacaagc agcacctcgg cgaggccggc gccatcgccg ccggcgccctt cgcactctac 300
 gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag 360
 gtcgctgccg cggcgcccggt cggcgccggc ggctacgtat tccacgagca ccacgagaag 420
 aagaaggacc acaaggacgc cgaggaggcc agcggcgaga 460

<210> 19170
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-C7

 <400> 19170

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 gctatccttt caagaatgga cccagcaagt gcaagagatg ctgaacacaa agaagtttgg 180
 tgacattgca tttagagaca aggattttta gactgcaatt gactactact ccaagctagt 240
 tgcgatgatg tcgacgcctt cagctacggg ttttgtcagg cgcagttttt cctacatgat 300
 gaatgggcaa gcagagctcg ctctacggga cgccatgcaa gccaggtct gcatgcccga 360
 gtggcctacg gcctttctacc tccaggecct ggctctttca aagctcggca tggaaaccga 420
 tgcccaggac atgctcaacg atggcgccac gtttg 455

<210> 19171
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C8

<400> 19171

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tgatgttgac cttctctgta ttcccatcac caaaggcttc agacactgtt gtggagcctt 120
acaatgctac actttctgtt caccaactcg ttgagaacgc tgatcaatgt atggtgcttg 180
acaacgaagc tctgtatgac atatgctttc gcacgctaaa gctcgccacc cctacctttg 240
gcgacctgaa ccatctcacc tctgccacca tgagtggcgt gacatgctgc ctgagggttc 300
ctggtcagct caactctgac ctgcgcaagc ttgccgtgaa cctgatcccg ttccctcgcc 360
tccacttctt catggtcggg ttgcggccgc tgacctcccg cgggtcgcag cagtaccgcg 420
tcctcacggt ccccgagctg acccagcaga tgtgggacc 459

<210> 19172

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C9

<400> 19172

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tgagcttggt ttctttgggt ttgtattagt agctgtggaa ccttaacttg gctatagctg 120
aattttcttg taagtccctg tagtgcttag ccagttgtaa cttaaagagt tctgtttagg 180
ttgccttctt gcggccacaa tcatgtagca gaatgtgcgt gtgtttcagg ttagcgtggg 240
ggtatgtgca tctgtccaaa gagagtctgc aatttggcaa ccggatattt tgttatcaat 300
ttcagttact tcgaactgaa catgttctca ttcttacttc ctgttt 346

<210> 19173

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-013-Q1-K1-D10

<400> 19173

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 gggatgatgt ggatgcaata ggcacccctc cttctccaag gtcagaccat gctgctgctt 120
 gccatgctga ccgctatctt ttaatttttg gtgggggggc tcatgcaaca tgtttcaatg 180
 acctacatgt ccttgatttg cagacgatgg aatgggtcaag acccaaacia caaggcccga 240
 ctccaagtcc aagagctggc catgcagggt gaactgtcgg cgagaactgg tacatagttg 300
 ggggtggcaa taataaaagt ggtgtttctg aaacacttgt gcttaacatg tcaactctga 360
 cgtgggtcggg tgtagcact gtggaaggac gagtccccct tgctagttag ggcattgactn 420
 tagtgcatag 430

<210> 19174
 <211> 56
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-D11
 <400> 19174

caaggttgtc gtcactgaag ttcttggtgg tgggaagttn tatgttcaga cagtgg 56

<210> 19175
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-013-Q1-K1-D12
 <400> 19175

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 catccggaag aaatggccaa gtcgaagaac cacacggcgc acaaccagtc gttcaaggcg 120
 cacaagaacg gcattaagaa acccaagcgc caccgccaga cctccaccaa ggggatggac 180
 cccaagtcc tgaggaacct gaggtattct aggaagggca acaaaaagag tggtagggct 240
 gaagctgagg agtaggaagg aaagcatggc tttgtttcct ctgttttttag ctgattcca 300
 ctttaggac ctgggggttt gctaaagatg gaacttaagt ggtgttactg tatgatggca 360
 aggacctttt gctgccgaag gttatgtttt gaagttcatg ctacctttta aagtacggat 420
 taccttgtgc ctatgttcaa aaa 443

<210> 19176
 <211> 225
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-D2

 <400> 19176

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 tgagcagctt tccgttgtgc aaacttggtg tcccgaatg acttggcacg tcctctgtaa 120
 caagcaacgt cacctcggag ggtactttta tttaattctt ttggtccctc ttgcagaaaa 180
 taatatttta ttgttgtgaa taaaaaacg ttgcaattac cgatg 225

<210> 19177
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-D3

 <400> 19177

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 caacacaagt atgcttgctg gatggaggat tcataccagc tgatgctgat gtagtgtttc 180
 actggtgtca tgcattcatg tctgtgcta ttataatcaa aaagaaaaaa gaaataacag 240
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 acggtgctgc tagcttgtag taataaagtg ttgatctgc 339

<210> 19178
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-D4

 <400> 19178

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cggtgggtct tgcttccaga aggacatcct gaacctggtg tacatctgcg agtgcaatgg 180
 cctgcccagag gtggccaact actggaagca ggtgatcaag atcaacgact accagaagag 240
 ccggttcgtg aaccgcgtcg tgctgtccat gttcaacacc gttgccggca agaagatcgc 300
 cgtcctcggc ttgccttca agaaggacac cggcgacacc agggagaccc cggccatcga 360
 tgtctgcaag ggctgctgg gtgacaaggc ccagatcagc atctacgacc cccaggtga 419

<210> 19179
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-D5

<400> 19179

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 agcttgagat tctagaagga actgacatga agccatctga tataaatgga ctagcggacc 180
 catatgtgaa aggtcacctt ggtcctttca aattccaaac acagatacag aggaaaacat 240
 tgtcccctaa gtggtttgaa gaatttaaaa taccaatcac atcatgggag gcaacgaatg 300
 aacttgcat ggaagtctgt gataaggacc ccatgtttga tgactcactt gggcaatgta 360
 ccattagttt acatgatctg agaggtggac aaagacatga caaatggata tcaactgaata 420
 atgtgaagaa aggaaggatt cacttggcag taacaattga 460

<210> 19180
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C11

<400> 19180

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 attctaagga gtgaccttgt ctacgattgc gggcaaagct tgaaccctgc tgctgacttg 180
 ggccaggtgg aaggcgcatt catccaagga gtaggcttct ttacaaacga ggagtacaca 240

acaaactctg aggggttggg catccacgat ggcacatgga cgtacaagat cccacaggtc 300
gacaccatcc caaagcagtt gaacgttgag ctgatcaaca gcgcccgtga ccagaagcgt 360
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gcaatgaggg aggccatc 438

<210> 19181
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-A7

<400> 19181

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actatcctaa taacatgccg gcggtgccac ttggaccggt tttgcctgtg ggcatggggg 180
tcccaccggc atatggcgcc cagcctgtca tgtacaatac tcaacctgga gcatcaccgc 240
acggttatat gcatcctgct ggtccacagg agatgcaaca atacagagga agaaactttt 300
agatatacca ttctgaactg ctcttagatg gaagtcgctg caatccccac aagtgggatt 360
ttgaccagca aaaaccgcta ttacaatgga aaaaactggt cctgttgtgt tgctcggatt 420
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<210> 19182
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-A9

<400> 19182

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gccgagtcca ggctgtgctt cgcgcaggac cgttacatct tccacgtcct ccgatccgac 180
gccgcccggc tcaccttctt ctgtatggcc aacgacacct tcggaagaag gatccccctt 240
ctctacctgg aggacatcca aatgagggtc atgaaaaact acggcagagt cgcccactct 300

gcgctggctt acgcatgaa cgatgagttc tccagagtgc tccatcagca aatggagttc 360
 ttctccagca acccaagcgc cgacacactc aaccgtctcc gtggagaagt cagcgagata 420
 cacaccgtca tggtcgacaa 440

<210> 19183
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-013-Q1-K1-B10
 <400> 19183

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 atgacattaa ggtcttcgcc gcggtgccgt caaagcctgg cgctgagttt cctaatagccg 240
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 tta 363

<210> 19184
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-013-Q1-K1-B12
 <400> 19184

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 tacctacct catcattctc acaccatcca tataatcttt ttcattctta ctaacaacct 180
 cacctcccaa cttccctact ttccttcttc cataactaat caacatttac tctccttatc 240
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<210> 19185
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-B2

<400> 19185

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tcaccaagat tggactatgg ggtggaccgg gagggtcggc acaggacatc acggcagagc 180
ggccaccgca gcgtcttcac agcgtcaccg ttcgtgctgg cgttgccgtc gactccatcg 240
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gcggcaatgt tcgaacgata gaccttggca acgccgagga tgtcagggaa gtctcgggaa 360
catacggcgc atttgaaggt gccactacgc tgacctcgct caggctcgtc accagcagca 420
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<210> 19186
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-B3

<400> 19186

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cccggctcgac cttccacaca cgcgcgcaaa cacacatggc gtcgcagcag aggcaacagc 120
aggcgggagc ggcgggcgcg gcgtcctccg ccgtgggctt cgaggactac ctgccggtga 180
tggcgggagc gctgggagag gacgggctga tgcgggagct ggcgagcggg ttccggctgc 240
tgatggaccc ggcgcgcggg ctcacacact tcgacagcct ccgccgcaac gcgccgctgc 300
tgggcctgng cggcatgtcg gacgccgacc tncgcgggat gtcgccgag ggcgacttcg 360
acggcgacgg cgcgctcagc gagacggagt tctgcgtcct catggtgcgc ctcagnncg 420
agctcatgga 430
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<210> 19187
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-B4

<400> 19187

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 gaggaataat tatcggtgtt gttatatacc ccatttccaa tggcaaggat ccaattattg 120
 aatgataaca agtcttcata ctcttcattt gatataattac tttgtcgtag tcgcatgttt 180
 tcagaaagga atataatgtt gacatgggtc caaaggtagt aagcaatgat acaagcattt 240
 attatttggtt cttttgttcc attttctata acaggtaata tttgttttgg atcgccacct 300
 agcacaacca ctttaccacc aaaaggaatg tcaagagctt tttcatatgt ttctcctact 360
 atatctctaa gggatctatc aaatgcttca aagcatnngt tatttgtcat tagagcttca 420
 tcccatataa taagatctgt gtcaataaga agttttgcaa 460

<210> 19188
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-B5

<400> 19188

cccacgcgtc cgattcatgt cagcattacc aatttagcat gttttctctg tttcctgtgg 60
 tgagacattc tctaattgta cacagaaatt acggctgagg atagaggatc ctctcggag 120
 aaagcacatg gtgtatctgg gaggtgcagt gcttgcgtgg atcatgaagg taattcttgt 180
 atatgcgaat ggcgtttaca ctgtgatgga ttgatagcaa tatacttccc cgcgtattgt 240
 ttggaacgtg caggatgcac cggagtctctg gataaccagg caggagtacc aggaagaagg 300
 tgtagcgtgc ctaaggaagt gcgggcagtc ataagtcttg ccacatatca tccacagaag 360
 aaatggaggt tgcattgtga aagaagagct ctgntgttgg tgttgtgtat tgtagtgagc 420
 tatagctgtc ctgaacatgc ttggggataa accatgtt 458

<210> 19189
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-B6

 <400> 19189

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aggacaaaac agtcacctta tatggcatat atattatctc acaaactgta agcgacaaac   60
agtcctctcc agcaacatat gcatcacatg caacgagaac ggtatggaac tgagtttctg  120
gacaagtcta tatggattca gcacctatct cgaatattca catttcttta taccaaaaagc  180
agacgatacg caaaaaacga gcatatctga cagtaacatg caacgggtag cgctacaaca  240
tagatctagc ataaccctgg cagtttagta acttggaacc atgctacaag aacgggacag  300
tcgcttttcc atctctcgtc cagtcccaac tgttgctctt gagccacctn caccgccgcc  360
ttctgctgca gaaactgtgt tgtattgctt cctgcaacct gngcagcgcc catcttccac  420
caagatcctg ttgtggcaga agaggcacat                                     450
  
```

<210> 19190
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-B7

 <400> 19190

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cagacacatc ccggtgatcg acggcacggg gatgctgggg atggtctcca tcggcgacgt   60
cgtgcgcgcg gtggtggccg agcacaggga ggagctgaac cggctcaatg actacatcca  120
gggaggctac taggacggcg tgtgcagcga cgacgacccc tccgatcccc ccagtcagtg  180
aagtccgcct ttgaaatcca ataactcgga acgatgatga tgacgaaata ggccgtgttt  240
tcttgacaaa tgatgttaag ttcggcaagg tttgcctttc tctttttttt tttctactgc  300
gtggtctatg tgtatattgc caaaggcatg cgtgagccat gcgcccgggt ctgtgctggg  360
gcgcagatac catctgatgg tggaaacacc ggaaataaga gcgtgccgct gtgtgtttcc  420
tttgaaggaa tg                                                         432
  
```

<210> 19191
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-B8

<400> 19191

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gcttcccggg gaaaaatcta ttgtcacgtg cccaccggat tttgcatatg ataagttccc 180
aaggccagca aatgttcctg aaggagctca tggtcagtgg gaaattgaac tacttggatt 240
cgaaatgccc aaggattgga ctggcttaac ttttgaagag atcatggatg aggcggacaa 300
aataaagaac acgggtaaca gactgtttta agaaggaaaa ttcgaacttg caaaggcgaa 360
atatgataag gtgcttaggg aatataacca cgtgcattct catgatgatg aagagggaaa 420
aatctttgct aattcaagaa gttccctaca tctaaatgt 459

<210> 19192
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-B9

<400> 19192

gaatctcata aggaagatgc tctgcccttg tccttcagag cgtctgaaag cccatgaggt 60
actacgccat ccttggatct gtgaaaatgg agtggctact gatcaggctc ttgatcccgg 120
tggtctctct cgtctcaaac aattctccgc aatgaacaaa ttaaagaagt tggctctgag 180
agtgatagct gaacgacttt ctgaggagga gattgctggg ttaagacaaa tggtcaaggc 240
agttgacgtt caaaatagag gcgtaattac ttttggtgaa cttagacaag gtttaaaaag 300
atatggtagc gaattggaga atagagaaat tagtgatata atggaagtgg ctgataatga 360
caataatgtg accatcaatt atgaagaatt tctcgtgca actgtgcctc ttaacaaaat 420
agaacgtgag gagcacctg 439

<210> 19193
<211> 456

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-C10

 <400> 19193

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 tgatcggagc catcgacact cgagaagatc gagggagaag agacatgata gagactcaag 180
 ttctcctgat gccatcaggc gctcaagtag atcgacggag aaacagcgcc gtcctgatac 240
 aagcccacgt catgccaacg ggcattcaaa gaaatcaagt ggcaagcaag actatactga 300
 gcgtagccgt tacgaaacca gtagacattc aaggagatct caggagaaac ggcaactacc 360
 tgattctagc gcctctgatt actcggactc tgatcagcac aaaaaacatc gccaccatca 420
 taggagaaaa tgaactggca gtgtataagg taaaat 456

<210> 19194
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-A6

 <400> 19194

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 cagcgccgcc gccccggctc ccgccgacgg gggcgacgac ctcgaccagc tctcgacag 120
 cgcgctcgac gacttcacca acctcgatct ctctgcctct gccgccccca aaagctccgg 180
 cgaggcatcg gggtcaggat cgggaggcaa ggggccagtg aaggggctgg ggctggggct 240
 tccggacccc aaggcgccga agcggcgcg cgggaagcag ccgcccgcga ggggcgcgtg 300
 cgccaaagag gcgctcgagg agctgacgcg cgagacgcgg gaggtgtgc gcggtctcga 360
 gacggccact gggagtgtcc cgtcactgga cgatgacgcc atgatggagg agtttgtcaa 420
 gcagttccag gagttcgcag gggcacagga tatggactcc 460

<210> 19195
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-012-Q1-K1-H2

<400> 19195

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aggatgaccc agattatgtt cgagactttc aatgttcctg ccatgtacgt tgcaattcaa 120
gcagtgtgtt cactctatgc cagtggacgt actactggta ttgntctcga ctctgggtgat 180
gggtgtgagtc aactgtgcc catttatgaa ggatatgccc ttcccatgc cattcttcgt 240
ctggatcttg ctggtcggga cctcacagac tccctcatga aaattctcac tgagaggggt 300
tattccttca caacctctgc cgagcgagaa attgtgaggg acatcaagga gaagcttgca 360
tatatagctc ttgactatga gcaagagttg gagactgcc aagaacagctc ctgagttgaa 420
aagagctatg a 431

<210> 19196
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-H3

<400> 19196

atttgataat ttggggaggg gaaatcgctc gtaactgtgc aaacacttgt tcctcgatgc 60
cccctcaatc aatcgagccg tgggtgtttgt tgtctctctc tctctttaag atggttgac 120
ggaggaatcc atccattatt gaagaaggta gtagatctga agaaatccag gtggagctgg 180
agcgtcctcg ccgctcccag accggtcatg gtagaggcca agctcgggga gatgttggtg 240
ggagtagttc tcaacaacct gaaatcgctc atgccgctcg agaagaacct gtccctcagc 300
cacctctcca tccatcttca tcacgggctg ctgcagctgc cgcctctcgc cccatgagcc 360
gtggtaagag aagcaagaag agaggtgttc gtgcgctcat caggggttta aatggaatct 420
atgctatct 429

<210> 19197
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-H4

<400> 19197

aatccctcat agatttgatt ctcttgatac ctcttgccaa ccaacggcgg cttttaaaaa 60
ggtcggccga ccaatcaact tctctctttt cccttacctt ttttcatgcc tttttcatcc 120
aatctctaataa taaagtctct aaccttctct tcccccaaat tttcatttac ttcattgtct 180
ttaccatact ttctactac ttctctgcca tcaccatcaa tattgttata atccccctcc 240
tcaatatatt atatcacatc ctcatctact tcaacacccat tcctttcttc atttacataa 300
catccaatcc ctactactca acctttatta atatctccac ttattctttc a 351

<210> 19198

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-H5

<400> 19198

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gaaccggaac cagaacgaga acccaagccg gagcccgaac cagaagaacc aaagccacag 120
cctcgccggg gcaggcctcc aaacaagaat aatgccaaac agaaagttgg gaagccacca 180
gcagaacgtg ccaactgcaga cttttctggt gcaacacttg ctactgcggc aaatattgga 240
cgacatgcac aggcagatgt tgatctgtca cgaagagtaa tggataaagc gatgattgcg 300
gatgtgttga gagcttcttt tgccaacctt aggaatgagc acaactggtc tgggtgagcgg 360
aagtttgaaa gacttgaagc ttactcaggt tatgggggta catggtctgc 410

<210> 19199

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-H6

<400> 19199

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gcaacacaac tgctgctatt ggaaaggggt ttgccattgg ttcagctgct cttgtgtccc 120

tggcgctttt tgggtgccttt gtcagcagag ctggagtgaa ggtcgtcgac gtcctctccc 180
 ccaagggtttt cattgggttg attggttgag ccatgcttcc ctactggttc tctgccatga 240
 ccatgaagag tggttgaagc gccgccctga agatggtgga ggaggtccgc aggcagttca 300
 acaccattcc tgggttgatg gagggaacag ccaagccga ctacgcaacc tgtgtgaaga 360
 tctccactga tgettccatc aaggagatga ttctccccg cgctctgggtc atgctgactn 420
 ccct 424

<210> 19200
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-H7

<400> 19200

gcagaagtta gcaagcagtg caacgcgctt ccaagaggtg aattcgcctc aaaagcgact 60
 gagccacagc ttcactgtgt tcgcgaaaga tatggttgag gcgatatcat tctcaaactc 120
 gtatgccccct gagcatttga tcatcaacgt aaaggatgct gagcagtggg aggagtcat 180
 cgaaaacgca gggtcagttt tcttgggcca atggaccca gagagcgtgg gcgattatgc 240
 gagcgggacg aaccatgtcc ttccgaccta tggttacgca aggatgtaca gcggtgtatc 300
 gctgaactct ttctcaaact acatcactgt ccaatcccta acagaggaag ggctgagaaa 360
 gctggggccg tacgtcgca agatggccga agtggagggg ctagaggcgc acaagagag 419

<210> 19201
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-012-Q1-K1-H8

<400> 19201

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 gaagtgctgg atttctctct aggaaagata ttccagatgt atctaacaaa aagagtgaca 120
 agcaagagtt aaagcccatc cattgtaaag tgcaaacagg aaagaggaag agaggaacag 180

aaaggaggtt gttatcgaag aagcaaagtt gccaggaccc tggaccattg cctgcgtatc 240
 gccaaagaaat tgcattcttg aatgaatcca gaaaatccac ccacagaagg attgaaaatg 300
 acccttctac cgagggtgaag cttaaagttg gtgatgtgag attggcaaac attgatgaaa 360
 acatcaacaa gccagtgagg actcagagag aaggaataga aattntttgt ggtcctgatg 420
 attggacaaa 430

<210> 19202
 <211> 61
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-H9

<400> 19202

aaaaaaaaa aaaaaaaaaa aaaaaaata aaaaaaaaaa aaaaaaagga caaacaatg 60
 g 61

<210> 19203
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-A1

<400> 19203

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 tctgtggggg tcaactagcc aggacaaatg cttatggact gcaaagcttt ttctgtcat 120
 gtctctccca gaaatgctta atgtgggcat gtggcttatg ggatcagaat gcgaccaga 180
 tgggagaata gcttccttgt ggcaaaaatc acagaggatc agcctggaag agctgcatcg 240
 tgctattgat tacagacaac tttgcaccga ttcgagcaag catcaggcaa atcttgcagc 300
 tgacatagcc aaggcttgca tgaactatgg ctactcggg cgtaatctgt ttcaactttg 360
 tgaggaaatg ttacaaaaag atacatgttt agcagtctat gaangaatac tttcattttt 420
 tccaagtcac agtgaacagt atcctggggg tct 453

<210> 19204
 <211> 382

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-A10

 <400> 19204

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 aacgatgagg ggatgccaat ttaccagagg cttttcatga aggggaagct gtacatccat 120
 ttcacggtgg agttccctga ctgctggca ccagagcagt gcaaagctct cgagacagta 180
 cttccaccaa ggccttcatt caagctgaca gacatggaga tagatgaatg cgaggagacg 240
 actatgcatg atgtgaacaa catcgaggaa gagatgcgca ggaagcaagc tcacgtgcc 300
 caggaggcgt acgaggagga cgacgagatg ccgggcggag cccagagagt gcagtgcgcg 360
 caacagtaag cagactatca tc 382

<210> 19205
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-A11

 <400> 19205

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 ggggtgcgcg accccacacc ggctagctac gacaacatgc tgacgccag atcgacgccg 120
 tgtacgccgn catgaaggcc atggggcaca cggacgtggg cgtccggatc tcggagaccg 180
 gngtggcgtc caggggagac gaggacgaga ccggggccac ggtgcagaac gccccgcgt 240
 acaacggcaa cctcatgcac agggtcgcca tgagccacgg gacaccgctc aagcccaaag 300
 tgcgcgtgta catgtacacg tgctcgtct ttaaagcgag cacgtgaacc cagcgcacac 360
 gtgagagcgc atctacggtc tgctctacca caacggctcg ccggtgtacg etc 413

<210> 19206
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-A12

<400> 19206

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ccagcactcg atgggtcatgt cttgcgcgca ttaattctgc gataacagga ccgatgggtg 120

cttggattat ttcagattat ggaccatttg cagtatgatt gctcgagaga aatctggagc 180

tctgtttcag atccactttg tgacagcaag gcatgttca gcatgaagat ccatgtatga 240

tacctctgaa aggtttactt aggcctagac tcagtttgtc tctgattctg tacattcttg 300

atagattata tatttgetca agaatgttgt tcagtgcagc attcaactgc aaattttatt 360

gctggatgaa tcgctatcca ctagtacata ccgatttcca ggc 403

<210> 19207

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-A2

<400> 19207

atcataaagg actttgatga acctggtact cttgcaccaa ctggtctttt cgttggaggt 60

acagaggaca tgggtgatcca aggtgaacct ggagttgtca tccgaggaaa gaagggcact 120

gggggcatta ctatcaagaa aaccggcatg tccttgatta ttggtgtcta cgacgagcca 180

atgactccag ggcaatgcaa catggtggtg gagaggctcg gcgattacct gatcgagcag 240

ggcttctaaa agttcgtcat gttctgtttt ggtcatttgg gcaccaaagt ttgcgcctca 300

tttggttctg taatccgtga gctcgtgcat gtacttggcg tattgcatgc agtgaataat 360

ttagcttggg tttgtttggt gggggcagtg ttggggacgg atttggattg gggtttatgc 420

ttggcatcgc gtcgtatcga aactcagctg ctgtttcg 458

<210> 19208

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-A4

<400> 19208

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accggagggc gccgatggag gtgggcccgc tgcccagatc cgccgcggcc tgccgtgcgg 120
cgccccctgct cccggccggt cgagccgctg cgtgccacct ggccctgccc cggcgcgcgt 180
tctccgcata cgtcgccggc gcaccggcgc cgcgccgcct cgccgctcgt cgcgctgcgg 240
atggtgacag cgtggagacg ggcgccgagg cggccccat tgagaaaagg ttccctccct 300
tcccagagcgt catggacata aaccagatcc gcgagatcct ccccccacagg ttcccattcc 360
ttttggttga tagagtaatt gaatacaagg ctggagaata tgcagtgggg atcaagaatg 420
ttacaataaa tgataatttc ttcccaggac attttcctg 459

<210> 19209

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-A5

<400> 19209

caaaaaacga acttgaaacg accgcgaagc cacaagtcaa aggcggcggc ggccgatgggg 60
agcgacacgg agacggagaa gaaggcctcg gtggcgctga tgtccattgc gaaacccctc 120
gctggaaaga agctctgcaa gcggaccctc aagctcgtgc gacgagcctc cgaggcgaag 180
tgccctcaagc gcggagtcaa agaggtagtc aagagcattc gccgcgggaa caaaggattg 240
tgtgtgatcg ctggaaacat ttctcctatt gatgtgatta cacatgttcc gatactatgt 300
gaggaagcta atgttcctta cgtatatgtt ccatcaaaag aggatcttgc gaccgcagga 360
accactaaga ggccgacttg ttgcgtcttg gttctgacca aaccaaaciaa gggg 414

<210> 19210

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-H12

<400> 19210

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agatgatggc gtgcggcggc ggccggggaga agaagcggcg cctgagctcc gagcaggtgc 120
gcgcgctgga gcggagcttc gaggtggaga acaagctgga gccggagcgc aaggcgcggc 180

tggcgcgcgga cctcggcctg cagccgcgcc aggtcgccgt ctggttccag aaccgccgcg 240
 cccgctggaa gaccaagcag ctggagcgcg actactccgc gtcgcgncag tcctacgacg 300
 cgctgcggca cgaccacgac gcgctgcgcc gcgacaagga cgccctcctc gccgaggtag 360
 ttgtcgacgt tatgccgtta tacaagctgc tggacgagca cgatgacgcg cgcaatggct 420
 gacc 424

<210> 19211
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F8

<400> 19211

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 gcagcagctg gcagcagggg aggccgcggc ggcgcggtg cggcccggtg agacgctgct 120
 tcgcgcgga ccgctggggc tctgcgtggc cgccatgacc gtcagtctcc gtaaccagca 180
 gagcaacgag tacggcgccg tcgcctactc cgacctggga ggcttcaagt acctcgtcta 240
 cgccaacggc ctctgcgctg cctactcgct ggtatccgcg ttctacactg ccgtgccgag 300
 gcctgccacc gtgtcgcgct cctggctcgt ctctcctc gaccaggtgt tcacgtacct 360
 gatcctggcg gcggggcgag cgggggcgga gctgctgtac ctgcctaca acggtgacaa 420
 gga 423

<210> 19212
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F9

<400> 19212

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 caacctcact ggtcacttta aacacttgcg acgcctcta atcatcaaca ctacctctac 120
 ttctattact tacttccctt caccaccatc aactaatctc tcaacaatgc cttcacctcc 180
 tacatccata tcctctactc caaccacatc acacaccagc acacacatac ctctatccac 240

ttcaactttc atacctacta cttccagaac tacatttctca acactatcta gaacactaac 300
ta 302

<210> 19213
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-012-Q1-K1-G1

<400> 19213

cggccatcgc gctggg'gcgc gtgctcatgg ccatecgtgt cgcggggcctc gccgggcgct 60
gcttccgcgc cacctggctg ctatggctct acctcctcac catgctcgtg ttcatecgtc 120
cgctgctctg cttcacgcgc ttgcgcttcg ccgtcaccaa cagggggcgcc ggggaagccg 180
tgtcgggggt aggttacagg gagtaccgcc tcggggacta ctccacctgg ctgcgggcgc 240
acgtcgaaaag ccgcaaggac tggggcccgga tccggagctg cctcgccgac gcgcacgtct 300
gcaggcgctt ggaggagagg gagagcaagg acgcggcggg tctggctcgg ctcggcctgt 360
ccccggtcga gtccgggtgc tgcaagccgn ccacgagctg caacttcacg tacaccg 417

<210> 19214
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G10

<400> 19214

aaagattcag tgctctgatt cttcttgggt tgtctttctc cggcagatct ctaacgagga 60
gatgttctct cttcttttct tttcttcttt tttttgaaag cttccctgta acctgaaatc 120
ggctttactt aaatttcgag ccaacttaat cttcttcttt gccattctt ttttaaagaa 180
gaaagttgag agatgcctgt agtttttttt ttgggtgtgt ttgtgactcc agagtctgaa 240
atcacaaaatc agagctgtat agggagcagg tgatgactga gtgactgaca aacgtgggga 300
agatggagac aaagaaacgc aagcctgtgg tctactaaag acgggggcat cgccatcgag 360
ggcaaacgga ggccacagga ttagcagctt ctccgaactc ccctctcgtg ctgctgcgtc 420

<210> 19215
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G11

<400> 19215

actagttcta gatcgcgaaac tgtgcacttc tgtagtcaaa aaaaaaaaaa aaaaaaaagg 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaataaa ataaaataaa aaaaaaaaat taataattat aataaaacaa taataaaaaat 180
aaagaaaaaa ataaaacaaa aaactataaa taaaattaaa aaaaaatggt tgagatatcc 240
atagtctaaa atcacaaatc tagatcatct ataagaaaca agattattga ctgaagtgc 300
tgacaaacgt tgtggaagat ccaaaactaa aaaactcatg cctgtggaat actaaagact 360
gctgcatcgt tatcgacgtc aaacaaaagt cacatgatt 399

<210> 19216
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G2

<400> 19216

cacagcgttg gtggccttga ttgcattcat gccaaccaac cctggtgggg cattggggggc 60
attggattac aaaaaggaag atagacgggc acttgggtata aaatcacgtg aagcaccgcc 120
aaaatttggg tccccagaac gacaaaaact aattgatgag atccatgagc aaatgctcag 180
taaggctcct cctgtcccc aaacgtacc aaatgtgcca aacgaggagt ctaacgaatt 240
accgcgatct gacccttctg gcgagcatgc agacaaggta gatgaaggta attcgttaga 300
ctcctcgatt ggcacatata ggttca 326

<210> 19217
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G4

<400> 19217

caaccagtac aaggetacga ttggggcgga tttctcacc aaggaggtgc agttcgagga 60
cgaggctctt cactctgcaa atatgggaca ctgctggtca ggaaagggtt cagagtcttg 120
gcgttgcatc ctaccgggga gcagattgtt gtgtcctagt ctatgatgtt aattctatga 180
aatcgtttga taatcttcac aactggcggtg aagagtttct aattcaggcg agcccatcag 240
atcctgacaa tttccctttt gttctgttgg gtaacaaagt tgatgtagat ggtgggaaca 300
gccgtgtggt gtcggagaaa aaggcaaagg catggtgcgc ctctaaaggg aacatcccg 360
actttgagac gtctgctaaa gatggaacga acgtggaaga tgccttcag tgtattgtaa 420
agaatgctct gaa 433

<210> 19218

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G5

<400> 19218

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ggccgcccac cgacgtgccg ggccgccacc aggaagaggg gggaggcgcc ggaggagacc 120
tcgagggcgt ccggccgtac ccggaaaacg gcagcggcag gggccgcccc ccgtggtact 180
acacggcctt ccaccgcggc aggcagcagg agcaggagca gcgggacttc gggatgagcg 240
acacgaggct gtaccagaac ggccgctact actacgacgt ggacgccggc aggtacggct 300
acggccgcga gtcgaacccc atgcggacgc gcccgcacga gggagagttc ggctccgggt 360
acggccgacc ccgcggcccc gccggtggca ggcgcggcag tagctacggc gacgcggcgg 420
gttaccagc 429

<210> 19219

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G6

<400> 19219

gcagcagcag gaaccctagc accgccgcat ccgcagccat gggatatcgac ctcgttggcg 60

gtgggaggaa caagaagacc aagcgcacag cgccgaagtc cgacgatgtt tatctcaagc 120

tccttgtcaa gctctaccgt ttcttgggtca ggaggaccaa gagcaacttc aatgctgtca 180

ttctcaagag gctcttcatg agcaaaacca atcgcccacc aatctccatg cgccgccttg 240

tcaagttcat ggaaggaaag gagaagaaca ttgctgtgat tgttggcaca gtcacagatg 300

acaagaggat ccaagagggt ccagcaatga aggttactgc cctgaggttc accgagacgg 360

caagggccag gattgtcaat gctgggtggg agtgccctac atttgaccag cttgctctcc 420

gtgctccac 429

<210> 19220

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G7

<400> 19220

aacaaaagca aatgaagagt ccttaacgag gaaagatatc atggagagag tggataaagg 60

gctatcagct tgtgatgaag agacttggct tgaggaatat aaccaagatg ataataggta 120

tagtgctggc aggggtgccc acttgaatct taagcgtgca gagaaggcaa ggataactgt 180

ccaaaagatt ccaactatga ttgacagctt gatagccaaa acttttgcac gggaggatga 240

aagaaatgtg ccatttttat atgatgggat tcgtttggtt gccatttttg aagagcaaaa 300

actcagaagg gcacaaaggg aggaagagaa gagacgcagc cgggatcaga ggaagctgca 360

cagttttattg cttaaggaga aggagttgat ttccgggtcc aaacctagtc ctagaaagac 420

aagcagct 428

<210> 19221

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-G8

<400> 19221

caagggacaa ggatggtgag gtgggagatg atgtgtttga tgaagaactg gaggctgagg 60
 aaactgacaa cccagagcta gctgttaagc ctgtttatgt caaggacgac ttctttgatt 120
 ccctctctag tggaacgttt ggacgtggag ggccaaatgg aaggggaaga ccttctgaac 180
 ggcgcagagt agacacagag acgtttggtg aatttccgag gcacaggcag ccctaccgtg 240
 gtggcgggccg aggctaccgt ggcggtgggc gttcccgtgg ttcattattac ggtggcagag 300
 gctatggaaa cacgnggagg ggtggccctg ggaattctta tcctcactgg ggcaatggga 360
 gagattgatt atagcagcag cagccatact ttgcggtgtt gtagtctttt gccacatgca 420
 tgaagcg 427

<210> 19222
 <211> 283
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-G9
 <400> 19222

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 aggaggctac cccaagcatg tagtagcttc cattctgatt ctgggacggt gttgcacgtt 120
 acagtgtctt caagctgtct ctgcaaagtg tgtgtttttt tattccattt ccctcctgct 180
 cttgttctct ccaactgcgc ttacctgcc cagatttctc taaaaaatgt attaaactat 240
 ctgagaaatt catccaactg cgagtactgt gctgtgcgtg agc 283

<210> 19223
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-H1
 <400> 19223

cgcaagcttt gtccacggtt ctgacggcct gggaaaccag gatttccctc caccggctgg 60
 caagcctata gatcagtcg ctgctgcctt cctggttgag caagcaaata tgtaccctgg 120
 acaagttacc attgttgctc tcggtcact gaccaacctt gctctggcag tggagcttga 180
 cccttcgttc ccgaagaaga tagggcagat tattattctt ggaggtgcgt attcagttaa 240

tggaaatgtg aaccctgcag ctgaggcaaa tatctttggg gatcctgatg cggcagatat 300
 tgtgttcacc tgcggtgctg atatcttggc cgtgggacta aatgtaacct accaagtagt 360
 tctaaccgat gctgacaggg agaagcttga acagtgtgat agcaaatatg cccgctactt 420
 atgcaagat 429

<210> 19224
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-H10
 <400> 19224

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 gttgcaacgc tattggtcac agtaaccaga gtggactcga cagctgggag acggcacaaa 120
 atacaagtac agcaccggtg cgcagggag acgtattcgt caagagggtta taacttggcg 180
 gatcgattct ttgcttgaac cagagaattc agaagtacta ggcgaacgat gttgatgtcc 240
 cagtgtgcat agagatttgc atgttgtaga acaaaaatcc tgtgatgaga gtggcataaa 300
 aacgcggatt tggagagtcc aaatttatta atagtgtcgg 340

<210> 19225
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-H11
 <400> 19225

gcggaatggg aattgctatt ctttctactt ctcgaggtat aatgacagat cgagaagcgc 60
 gactaaacag aattggggga gaagttttat gttatatatg gtaatggccc cacctatagt 120
 acccaaattc tatctcgaac ttcctatttt gaaaataaaa atagaaaaat aggagaaaaa 180
 tatatgacag aaaaaaata gtagagaaaa aaaaaaccg agagaagcaa aagtcacttt 240
 cgaagggtta gttacggaag ccctaccaa cggaatgttc cgcgttcgcc tagagaatga 300
 cacgatcatc ctgggctata tttcaggaaa gatccggtct agttctatac gaatactgat 360
 gggggatagg gtcaaaattg aaataagtcg ttatgattcc agcaaaggtc gtataattta 420

tagactt

427

<210> 19226
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F7

<400> 19226

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ctcaaggaga acctcacgcg gtcgaaacag aatgccgctg cctaaatcaa ttgctcctcc 120
tggtcattt cccctcccgc ctgatcatga cactctattg gcccagaact accaactcct 180
gcctacgttg aagacgccac ctcaatctga ggaaaacgag gcttagaatg aagaatccaa 240
cccaagtatg acaccgaatc cggcaaattc taatcctacc ttctcgtagg atcagcgtag 300
taacgagcaa cagcacactc ctcagcatgg acagaggggtt tcattccaac tcaatgcttt 360
ggcagctgct gctgcatagc gacctcggat gaccgtcgac cagctgaaca tctgctaacc 420
atcat 425

<210> 19227
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-E2

<400> 19227

atgtagttct gcgatcacat ttctgaggaa tagaatggat aggcctcgaa agcgtggtgc 60
agactcatta tccagccggg ctgccctgat gcttgatgca gaaagagaac cagaaaagac 120
atggagcccc atagttgaaa tacattatgt agggggaact tatagaggta gatgtcaaga 180
aggtgtccct gaaggaaagg gacgtctaac cttcagtgac ggaagctttt atgatggact 240
ctggagggtat ggtaagagat ctggtttggg gactctattt cacagtaacg gtgatgtata 300
ccatggaacg tggagggatg accttattca tggaaagggc tgggtactatt ttcacagcgg 360
tgaccgctgg tttgcaaatt tttggaaggg caaggctaata ggtgagggta gattttatgc 420
caatgatggg 430

<210> 19228
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-012-Q1-K1-E3

<400> 19228

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 atcattcaag gggtttagtgg cgtacctggt tcaggcaaaa taagaaacac cctagataat 120
 ggcttcttag gtgaagtctg aactgggcag ccatctgtgc tcacagctgc tgcgaatgga 180
 gcaagacatg acaaaggtag aaataatgtc atacagggtt atgggtggaaa gcaacaaggg 240
 aggtcaactg ggatggctta cctttccaga agatgaagta gttttcactc gacgcaattg 300
 gttttgaggg tggatgaagct gttggaaacc atacaagtgg cattgttttg gcctccaaac 360
 ggccgatgct gaagatgacc tgnattaaag ttattctaga tttatttttt ttgttgcacc 420
 attgctatt 429

<210> 19229
 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-012-Q1-K1-E4

<400> 19229

tgacattaac acaagctcta gattcccaag ccaaggagtt aaggtgctg accgagtcaa 60
 tcaatcgtag cagggaaacc ataaacatta ccagagacga taggttttct cagcaccgcc 120
 cactggaaga ccatgtccct cctgttacga ggaatggggc aattaacagt tcatggagat 180
 cttctcagca aactaacatg tatggtgtgt cacatggtga ctttggttcc gcaaggctctg 240
 cttcattcgt gccagcacct gctgaacctc cagctggatc attttcaaaa tcttgtgccg 300
 agcagacgtc caccgtgca caacgagcgg ataggtcctc tggcggttaag ccatgggaga 360
 tgcagcagta ttgcagcag aggcctggtt atggatccaa ctncagttg aatgatg 417

<210> 19230
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-E5

 <400> 19230

 gcgcctctac atttcttctc tctctgctcc tccgcctccg cctgateccat ccaagacagg 60
 gatcgccatg tcggactcgg aggagcacca ctctgaatcg aaggccgacg ctggggcgctc 120
 caagacctac ccgcagcagg ctggcaccgt ccgtaagaac ggcttcatcg tcatcaagaa 180
 ccgtccctgc aaggttgtgg aggtttctac ctccaagact ggtaagcatg gccacgccaa 240
 atgccacttt gtcgccatag acatattcaa tgggaaaaag cttgaagata ttgttccttc 300
 atcacacaac tgtgacattc cgcattgtgaa ccgtactgag tatcagctga ttgatatttc 360
 tgaggatgga tttgtgagcc ttcttacttc agatggcaac actaaggatg atcttagact 420
 cccaac 426

<210> 19231
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-E6

 <400> 19231

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 tggtttgaac ttgaaacaga tatacacaag gtcattgatt gctgcatgct gcttccatgc 120
 ataccaacag gtgtcataca tgatcctcgc cagggtatcc ccagtcacac attcagtggg 180
 caattgcgtc aagcgtgtgg tggtcattgt gacctcgggt ctgttcttca ggaccctgt 240
 ttctcccatc aactcactcg gtaccgggat cgctcttgct ggagttttcc tatactcgca 300
 attgaagagg cttaagccca agcccaaggc tgcttgatca tagacctttg cagggtccatc 360
 caatagaact tttgaagtta tgctatgcc ttggaatgat tagtgagtgc cgtagttaga 420
 atgatgttt 429

<210> 19232
 <211> 432

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-E8

 <400> 19232

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 gagggcacct ccaagagtga tacgaggtct acaaaagaga atcctcctag caaagatgaa 120
 gaccccatg ggattgatgc aaagaaggat aaaaggaagg gatctaaaca agaggtaaag 180
 ggccttgaag agcttgaagt ccagagtgtt tctacaggtc tcaccacttc gaaccctggt 240
 aaacttgaag tgccagacgg taaggaaaag aaaaagggtca aggaagctaa gacgaagaaa 300
 tctgaagagc cgtaccatgc caataacagt agcttaaaga acaaagaagt tcaatctttt 360
 gtctatgata ccagcacgaa ggacaagaag gaagccaaga ggaagaaatt tgttgacgaa 420
 gaagatgtag at 432

<210> 19233
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-E9

 <400> 19233

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 catgcaatac agtccttcaa attttacaag aagaaagcac aggactaaag taattttgat 120
 gcttctgatg aaaattcaag ggaagaagat ttctttacca tttccaagaa gaaagcatag 180
 aattggagta actttttatt gataatttca ttcatatcta ttgtcaattg tattaatggt 240
 ttttaaaga gacaaatcat gtctaactct cacgctgtaa tattctaagt cgtagctgaa 300
 tttgatgaat attcattggt gttttactta agagttatcg tattgagatc cttaacatat 360
 tattttattt ttc 373

<210> 19234
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-F1

<400> 19234

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ggggccttaa caaactgggtg agccttacca aaggctgggc cggcccaaag gccgcggggtt 120

accaatggcg ccggcaagga accggcggcg gcggccacaa agcccgacca caaccccggc 180

cccaaccgga ggcttcgtcc taatgaggct gttecgacgtg gtgtcggcgc tcaagtcggg 240

gtacgtgaag ctgcagcggg cgcacttccc gtacgacccc gacaggggtg cctcggccga 300

cgaggccgtg gcgtcggagc tcgactcggg ggccgcgctg cattgcctgt gcagctcccg 360

ccgcgggatc gggccgctgg tagacgaccg gtggtccttg gtgcagcgcc t 411

<210> 19235

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F10

<400> 19235

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cggtttcgtg ggtgagcggg tcgagatggc ggctcggat gttgagtacc gctgcttcgt 120

cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180

cgaggctctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc gcggcttcgg 240

cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300

ggagctggac ggccgcaaca tcaccgtcaa cgaggccag tcccg 345

<210> 19236

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F2

<400> 19236

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tgttggtgaa cacgtcacgc gataccgccg aggcgtggtc agcgtcgcgg agctcccgga 120

gcatcagcac gtgtgcgcag aaccgagcg agagcgcgcc ggtggccgtg caggcgccga 180

gcacgctctg cacggtgtag gcgtcgggcc tgctcgctt gactgcgtcg aggagcacca 240
gcttccggaa ttgctttgtc gcttccatct ggaccaccgt gtagaggctc catttccaga 300
gtactgcacg gtcgggctcc gattcggaac cagagtcggt aacggagccg acgcggaaag 360
agtcggtggc ggtgcagtca gacgagagcg cgatgatgcg ctctcgtcg tcgcagggcg 420
aggacgggac g 431

<210> 19237
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-012-Q1-K1-F3

<400> 19237
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gccgtctccg tgaagcccggt ggccatcaag ggtctcgccg gcagctccat ctccggaagg 120
aagctcgccg tcgccaggcc gtcggccccg tccatccgca ggcccccgcg agccgcccgtg 180
gtggccaagt acggcgacaa gagegtctac ttgacctcg acgacatcgg caacaccacc 240
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ttcttcgaga cgttcgcggc tccgttcacc aagagaggtc tgctgctcaa gttcctgctg 360
ctgggcggcg gctcatttct ggctacgtc agcgcgtcgg cgtcacggga cctnctgccg 420
atcaag 426

<210> 19238
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F4

<400> 19238
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tgaaaaattt agtaaaagga ctgtcaaggt tacaggaagg cataatgatg actgcaagag 120
gctgttaagg ttgatgggtg tccctgtagt tgaggcacca ggtgaggctg aagcacagtg 180

tgcagcactt tgtgaaaatc accaggttta tgctgtagct tcagaggaca tggacacact 240
gacttttggg gcccgaaagg ttcttcgtca cttaactgac cttgggtata agaaatctcc 300
tgtgacagaa tttgatgtgt caaaggtttt ggaagaactt ggactcacga tggatcagtt 360
cattgacttg tgtatcctta gtggatgtga ttactgtgag aatattagag gtatcggagg 420
acaaagagcc tt 432

<210> 19239
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F5

<400> 19239

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aaatcaaagc aggaccagcg cgcgcgcagt gatctagggc gaagcaaagc gaggaacagg 120
gaccgtctcg ttgggcccgg aaaactggcg agatcgatgg acgctgccgc ggaggcctca 180
acgccgtcgt ccccgtcgaa gctgcgcgac aagctgcgga ccacggtgtg ctgctgcttc 240
ggcgtggaga gggctcgggtg gcggcgggcg cggggggcg cgacggccgc gggcgagtgc 300
cgctacgacc cgctgagcta cgcgctcaac ttcgacgagg gcgaggacga cgacgcgtac 360
gcggacccca ccgcggcctt ccggtacagg aacttcaacg cgcgccttcc gccctcgc 418

<210> 19240
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F6

<400> 19240

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tccataaccc ggagtcattt ttcaagatca atcatcctga attgcctctg tcctactaca 120
caggcgttct tggcatgccg ggccttactg cttgggctgg atttttcgat gtgggcaagc 180
ccaagaaaagg cgactgtgtc ttcgtctcag cagcatcagg agccgttggt cagcttggtg 240
ggcagtttgc taagctcaca ggatgttatg ttgtcggcag tgctgggtct gacgagaagg 300

ttaatcttct gaaaacaaag tttggattcg atgaagcatt caactacaag aaagagc 357

<210> 19241

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-E12

<400> 19241

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tccatctgta tctcatgagc acaaatcaga caacatatga gaacttcagg tatcgctatg 120

atcagcgaga caaccatac aacaaggag tcatggaaaa catcaaagag atcttcttta 180

caacgatccc tccttccaag aacaacttct gtggtagggt cgaacaggag catggtctga 240

ggccccgtcc aacgaatggt ttcatgagtc caaacatggg gagagctggt ggcgacattg 300

agatgggtag aaaaccagtg gcttgggatg agcctaggat ggcggctgaa attggtgatt 360

taggagcagg tctgagcaac ctgttgagg acaaggatgg caggtttcgt accaca 416

<210> 19242

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-D1

<400> 19242

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tcgaaggtgc ggcagccggc aagcgaacga tttcattcga catgaatccc gagtagtaag 120

gcctccgata atccttccct tcagtttct tccgctgtct tccgcgttcg tgaccgtgat 180

ctatgtagct tttgctttcg taattccgtt ggatttttcg tttgttgctg tggttgcgtt 240

gttcggatgg gactttacgg agatctgata ggatgcacgc tggttgctcc caccagattt 300

cgatctggat ctgggaatct gtgttccaaa tcgggattcc ctgaatgaaa gggcctcctg 360

cggccccggt gctttggtct gccgcgatgc agaaatttat gtactgcgcc atgcaccttc 420

gatggatgtg ttcgctctcc 440

<210> 19243

<211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-D10
 <400> 19243
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 acgccgagct actaaaggca caagccgaca tatggcggct cagcctctcc tacctcacgc 120
 ccctgtcact gaggtgcgcc gtggagcttg gcatccccac ggcgatctac cgccatggcg 180
 gggctgcctc agccgctgag ctggtcacgg cgctgtctct cccctccact aagctgccgt 240
 tcctccgccg cctgctgcgg ctctcgcgg cgteggggcg gttcacgcgc gacaagcaga 300
 gcacggaaga agagcggtag cgcacagcc cegtgtccta cctcctggtg gacggcatcc 360
 ctcacgagga ccacatgaac cacac 385

<210> 19244
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-D11
 <400> 19244
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 cactttttca accgccacaa gaaggacgag gacgagcccg ccggcgagta cgggtactcc 120
 gagaccgagg tggtcaccgc caccggcgag ggcgagtacg agaggtacaa gaaggaggag 180
 aaggagcaca agcacaagca gcacctcggc gaggccggcg ccatcgccgc cggcgcccttc 240
 gcactctacg agaagcacga ggcgaagaag gaccccgagc acgcgcacag gcacaagatc 300
 acggaggaag tcgctgcgcg ggcggccgct ggcgccggcg gctacgtatt ccacgagcac 360
 cacgagaaga agaaggacca caaggacgcc gaggaggcca gcggcgagaa gaagcaccac 420
 cacctcttcg gctgaccgta gtacc 445

<210> 19245
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-D12

<400> 19245

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ccatttcggc gtctcgaagc cagtagatta ttcatttctc gatccacaaa tcctccaca 120
ctctccatcc cgaaccctga aatcgaggag cgcaggagga cgccgcaaag cgcgttggct 180
cttagggttt gccggtaggg ttgggaggct ccgaccgcgc cgcacacgtg tgaatattcg 240
agatctccga tatgctctag atgtagaaca cgacgagcga gaggagc 287

<210> 19246

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-D2

<400> 19246

cggacgcgtg ggctcgtcac ttcgcttccc cacttctcca ttccattgcg gttctgcgag 60
ccgtacctc cctgtggtgc ttggccatgg cggactacca cttcgtgtat aaggacgtgg 120
agggggcgag cacagagtgg gacgacatcc agcgcgcct cggaacttg cccccgaagc 180
cggagccctt caagccgccc cccttcgccc cgaagggtga cgccgacgag cagcccaagt 240
ccaaggaatg gcttgacgtg cgcgagcccc aagagctcga ggaactagag gacgatctgg 300
atgacgaccg cttcctcgag aagtacagga agatgaggct cgcagagctg anggaaagcc 360
gaaaagccgc gcgatttggc actatacttc cca 393

<210> 19247

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-D4

<400> 19247

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ggcgagaggag ccggcggtct gacctgttcc tacttctact tcctagttgc gcgcgtgtcc 120

tgggggatggt tcaatcgttg ttggttctgt ggatggcaag atcagactct attctaagag 240
 ctcgatgcgt atggcgaaga cagcattccc aggccttggg tccccgatta cacatgtaga 300
 tgttacttat gatgggaaat ggattctggg aacaactgac acatacttga tcttgatatg 360
 cactatcttc aaggacaaag atgggaaaga aaagactggg tttagtggcc gaatggggaa 420
 taggatt 427

<210> 19250
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-D7

<400> 19250

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 agctcaaacc tacatgcaca tataccatgg acctattcc gcggagtctc tcaactcactg 120
 ccatacgcgga tcatcaatcg ccatcggcac cgctcgacct ctcttgtagc ttcacgcaga 180
 cgcaacgcct aagataatcc acagaagcgt caaggccacc aacgtgctgc tggattcata 240
 cttctcggcg cacgctggcg atttcgggtc gacaaggctt attcccgcgc accgaacgga 300
 ccacgcaaag atagccagca gctatagcca gctaagctac cttgctcccg agtacgccta 360
 catgttctgc aaaccaactg catgctgcga tgtatacagc ttcaggatca tactgctgga 420
 gcttg 425

<210> 19251
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-D9

<400> 19251

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 tatgaccctg atcgggtcgg tcttgaagg gaggaggaca aggctgcagg cgccttctca 120
 tacatctcct tcgggtggcg caggcatggg tgctctgggt agcccttcgc ctacctgcag 180
 atcaaggcaa tctggacgca cctactgagg aactttgagt tcgagctggt atcgccattc 240

ccagagaacg actggaacgc catggtgggtt ggcatacaagg gcgaggtgat ggttaactac 300
aagaggcgga agcttgccgt ggacaactaa gattgtggcc gcagtctcta gatgcttgct 360
tcttggtgat tcaattgttt tcacatgttt gtcagcattt gttcagtga agttctgctg 420
tacgcaagcc agccttgcta 440

<210> 19252
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-E1
<400> 19252

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cgcgaaaccc cagacctcgc gccgcccctt cccctccgcg gcgtcgtcct cgcacgctct 120
ccgatccaag atgtataagc tggggagagg aaaccgcgac aaggtgcagc agttcatgac 180
cattaccggc gccaggcact gaaagctagt gattggcact tggaaggagc ttttgacttc 240
ttctatagcc aacctcaggt ttctgtggtc aatactcggc atcttgaaga tattttcaac 300
agatataaag aacctgatgc tgatatgata atgggtggaag gaatatctca attttgcaat 360
gatctacagg ttgatcctca ggatattgtc atgcttgtca tatcatggca catgaaag 418

<210> 19253
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-E10
<400> 19253

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cagcagaaaa gcagcggctg gctgcttcac tttttggttc agcagcagct aaagctgata 120
ggaaagcaca agcttctcga aagacagcaa aggacagtcc ctcaactgag aaagtggcta 180
ccactaatgt gactgccag cctgttaagg agcaagtaat cctgctgca ccaccgctg 240
atctgctgga tctgggtgat gagcctgttt catcgagtcc accgtcggct gaccctttct 300
cacagctaga ggggtcctt ggaccagcat cggctgcccc ggtgctttct ggaactccgg 360

ctaccagcac ttccaaagca ccaggccttc tgtcaatctt ctcagatgat gtaccaaccg 420
 .gagtgactag tgtgtccacc g 441

<210> 19254
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-E11

<400> 19254

gaagttcaga gatctgtttg ttacctggaa tccggtattg atagagaatg aaggttcaga 60
 tcttggtgat gaagactggc tgttcagcag taaaaggaac tccgatgcta tcatggttca 120
 aagcagagct actgatagtt cagtgccgat ccatccaatg gtgcagcaga agccttcttt 180
 acaaccagg gcaacatttt tgccggacct taatatgtac cagctgccat atgtcgtaac 240
 attttaaaca tctggcgagg tagatgagaa ttagatgaga tgttgggaga gagctgtgtg 300
 gatgtgggag ataatgggtt ccttgccgca gttttccagc tttgttccat agtgtttctt 360
 tgaggccaat agagttctgg cagaacttat aatgtaatat tgattaatta tttcgctcat 420
 gtatgt 426

<210> 19255
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C9

<400> 19255

gagcaagtgg ggcattactg gctagagctg ggaaggcgat ccaagtacca gttgcacatg 60
 gtgatagcca tactgtcata catcctcttc gggctgctgc caccagtcac ctacggactg 120
 tcattcagga cgagcgacaa cagagagaac aaagtgctgg tggctgctgc tgcattcttc 180
 ctgtgcattg cgctgctcgc aatcgggaag gcacatgtta agaggcatag gacatacctc 240
 acaaccctcc tctactacct gtccattgga ttcagcagct ccggactgtc gtacgtcgca 300
 ggcgtcctcc tcgcgaaggt cctagcacac ttcggtatca ttgatcaggg tgggtcatca 360
 gctcctgctc ctccaggtct ctcattccct gaagcagccg cctgggcttc ctactgagac 420

tggagc

426

<210> 19256
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B3

<400> 19256

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acacggctgg ccaagtacta tgtcgctctc gaggactccg agaagcacia ggttgagtag 120
gaggtgcac t ggctcgtggg caaccgggac cccaagttca ccaacttcgt cgagttccgt 180
acgcacaaag ttatctatag gagatatgca ggactttttt tctctatag tgtggacac 240
accgacaacg aattggcata cttggaatgt atccatctgt ttgtcgagat attggaccat 300
ttcttcagca atgtgtgtga acttgattta gtatttaatt tccacaagg t tacttgata 360
ttggatgagt tcattcttgc tggagagctt caagaaacaa gcaaaagggc aattatagag 420
aggatgg 427

<210> 19257
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B4

<400> 19257

ccggcgtgcc ggacacgtgg aacgagctgc tctactggaa gctcttcttc ccagcaacg 60
atgaggttct ctgatgggtgc attgggtgcct gcatacatc gcctggaaac caactgctag 120
gggctagccc aaagaaaatg tgtctagatg aacaaagaca tgggggtcaa atgttttgtt 180
ttgatttcgg atatggacgc tgtcgatgct cttgttctc 219

<210> 19258
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B5

<400> 19258

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gacgctgcaa cttcgaccaa gattagcgag gcagttaaac aaaaaggggg agctttcctt 120
gaagctccag tttcagggag caagaagcca gctgaagatg gccaatggt cattcttgct 180
gcagggaaca agccattgta tgatggtagt attcctgcat ttgatgtact ggggaagaag 240
tcattctttc tgggagagat tggaaatggg gcaaagatga agcttgtggt caacatggtc 300
atgggaagta tgatgaattc tttgtccgag ggactctgtt tggccgacaa aagtgggctg 360
agcccccaaa cacttcttga tgtactggac cttggtgcca tcgcaaacc aatgttcaag 420
ctg 423

<210> 19259

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B6

<400> 19259

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tgtcaattcc aggagtccgt ttgataatat tcaacagaag aaattagcag cgcttggagc 120
caatgcagcg cgaaggcctt tcaaagattt tctcagtaca ttgacaagaa ccaaagaaaag 180
tatatcgcg cgcacacgctc ttgctatgga atgtgctaaa tttggcattc tggatgatgta 240
tgatgccttt ggtgttaggc tacatgtagg gaagcaagca gaggtcttga accagattgt 300
gtatgagctt ccatcagaac atccactggc tgaaacaaga ccactgcgag agctgctagg 360
gcacacacct ccacaggtat ttgctggcgg agtgcttga tttgcagtag ccacatttac 420
agcgatgatc 430

<210> 19260

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B7

<400> 19260

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ccatctgagc agccagcctc ccaggctaca gggagagacg cagaggagac agctgctgcc 120
tggctgagac gatggccgga ggcggcgacc actcccagac gaacggaggc cacgtcgacc 180
agagggcctt ggaggagggc aggaaggagg agttcgctga ccagggctgc gccgccatgg 240
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tgcttcgagg gtgcggcgcg gtgacgatca acgcgagcaa gaacgggcag atcacgttcc 360
cgggcgtggc gatcgtgtgg gggctagcgg tgatggtgat ggtgtacgcc gtgggccaca 420
tc 422

<210> 19261
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-B8
<400> 19261

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tggcggctca gctggcgcgc gcgtttctcg ccttggtgtc ctctctgcc ttcttggccg 120
tgtctggcca gaagttcaac gccatcttca gcttcggcga ctccatgtcc gacaccggca 180
acctgtgcgt gaacgggtccc cccgccggcc tgacgctcac ccagccgccc tacggcgaga 240
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ccgagaagtt cgggctaccg ctgctgaagc cgtcgaagca gggcggctca gacttcaagc 360
agggcgccaa catggcgatc attggcgcca ccaccatgga ctcgggcttc ttccagtctc 420
tgggcat 427

<210> 19262
<211> 206
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-B9
<400> 19262

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aaaccacccg agcatctcca atcaaacaca caaacccaac cccctaacaa caccctaaacc 120
 caacaacaac cactactact acacaaatct tacatatcta cacaacaaca aatatcaaca 180
 aaaaccactc aatcaactta atgcca 206

<210> 19263
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-C1
 <400> 19263

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 tagatttact gatcagattg ataacatcac acacacacga agttcatctt caacatgctt 180
 agtattatta tgcattctgat ggtatgggat tgtctctgat agatccattt gctgaggcta 240
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 agcgcaacga tagaaagagt ctgactacag tccagggtct gaacaaagaa ttcagctata 360
 acaagaacct cattgatctg aagaaggaat tctgctgcaa tgggtactgaa gtcc 414

<210> 19264
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-C11
 <400> 19264

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 tggcaattgt ttgcttgatg ctgctggccg tcgtcggcca aatcgtcgt gatgctgatg 120
 ttaccgtaga acatcccagc cgcattctgca ccgaaacggg gattgatcct cgtgttccca 180
 acaacgagtg catctgctcc aagaactgcg cctgtgcccg taagtgcac cttgagtcgg 240
 ctgatgctgt ccagacctgc tttgtcgact gcgtcctcaa gaacgactgc atctgcagca 300
 gcaagatcat ccccgccgct gacgacccaa aggctaattgc caagtgaagt agtactgcta 360
 tcatcccga taatgtcgta cgtatagtag ctgctgaata aacctccat gcaccaacag 420

ggagagag

428

<210> 19265
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C12

<400> 19265

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tatcgagaac atgaacggca aggagctcga eggccgtaac atcaccgtta accaggccca 120
gtcccgtggc ggtggcggtg gcggcggtg ctacggcggc ggtcgcgcg gcggcggcta 180
tggtggcggg cgccgtgacg gcggttatgg eggcggtggc ggctacggcg gtcggcgcgga 240
gggtggtggc ggcggttacg gaggcggtg eggctacggc ggtcgcgcg aggggtggtg 300
tggcggctac ggcggcggcg gcggcggctg gagggactga tgtgtgggcc catcctggct 360
tcggccgagt tatcttatct atctatagta tcgtgttacc gttcgcttct gtcaccgtgt 420
tagtg 425

<210> 19266
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C2

<400> 19266

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agttttatag atcagtatct aaatcagatt acaccacaat gcgtcttggt tttatcatga 120
ctcactgccc tggaaatcca aaatttgatt tccatagata catggtaagg gtttttagagg 180
cggattttaa gaaagtggta ggcataagct ggtacttggt ggtcttcgtg gtgatatttc 240
tgttgctgaa tgtaaatggc tggcacacat acttttggat tgctttcctt ccccttattc 300
ttctgttagc cattggcact aagctggagc atgtcatagc tcagctagcc catgatgtag 360
ctgagaagca cacagcggtc gagggcgatg tgatcgtaaa accatcagat gaacacttct 420
ggttcggc 428

<210> 19267
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C3

<400> 19267

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 aggtttataa atcagggctg aagtcattat acaccacaat gcgtcttggt tttatcatga 120
 ctcaactgccc tgtaaattcca aaatttgatt tccatcgata catgggttagg gtcttagatg 180
 cggattctaa taaagtctac ggcacagct gctacttggt ggtcttctta gcgatatctc 240
 tcgctcatga ctgattatgc ttgtcacaca tacttttggg ttgctcacct tccccttatt 300
 cttctgatag ccattggcac taagcttgct catgtcatag ctacacctagc ccatgatgta 360
 tctgagaacc aactgctgt cgacagcgaa ttgatcgtaa aaccatcaga tgaacacttt 420
 ct 422

<210> 19268
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C4

<400> 19268

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 ctttctcatt cctcaaacia gcacgtata atacatttgt ttaacttctt ggtatttaca 120
 tatgggtctag ataaccacgc ataatcacac cacgtgatct ggaactgggc actaagaaat 180
 atattgtgca gagtgcagac tacagaatta caacaatagc tttgaactat aaattgacca 240
 gagattcaga ggagcattac tggcagtggg caaacgtgg tgcagtctct gcacacctgc 300
 actgtgttcc acccattttg cattggccaa aatattctac taccggatca atgttctg 358

<210> 19269
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C6

<400> 19269

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cgtcgacatg atcatgctcg cgcacaaccc cggcggcaag gagcggtagc agcgcgagtt 120
ccgcgagctc gcaaagggcg ccggcttctc cgggttcaag gccacctaca tctacgccaa 180
cgctggggcc atcgagttca tcaagtgaac caccgtcgcc gcgatgagat ggcatggctg 240
ccacatgctt tgcttgcttg gtcctcgat cgtagctgc cgtcgtcgtc ttcttctggt 300
tattgcgctg ctacctcgct gctctcgct atgcatgtac ttttgcttaa ttttctttct 360
tcatatcatg cactctgggt ggcctagact gccccgatc catggtggcc ggtacgtctt 420
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<210> 19270

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C8

<400> 19270

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ccgcgcgccc tcgatccgcg cccctctcgt gcgcagctcg gccgtgcagg ggccacgcgg 180
cggcgtcagc gttgcacggc gcggcagggc ggaggcccc gagcgtggcg gcgatgtcgt 240
cgtcgacgcc gccgccggga tccgtgcaga agtcggaaga ggagtgggag gccatcctca 300
cgccggagca gttcaacatc ctacgcctca agggcaccga gtaccctgga acgggtgagt 360
acgacaagtt ctttgaggag ggcatttata aatgtgctgg atgtggaact cccttataca 420
aatcatcgac a 431

<210> 19271

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-B2

<400> 19271

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cctcctcctc ccagccgcag ctggtcgcgg cggcggcggc cctggcagcg gcgctgctgc 120
tgctggcggc gggggccggg acggcgctcg cggcggtag ctgcggcgag gtgacgtcgt 180
cgggtggcgcc gtgcctcggg tacgcgatgg gcagcgcggc gtcgccctcc gcggcgtgct 240
gcagcggggg gcgctcgtc aacagccgcg cgtcgtcggc ggcgaccgg caggccacct 300
gcaactgcct caagagcatg acgggccggc tcggcggcgg cgtcagcatg gccaacgccg 360
ncaacatccc cggcaagtgc ggcgtctccg tcggcgtgcc catcagcccc accgtcgact 420
gcaccaagat caactgatcg atgg 444

<210> 19272

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-H12

<400> 19272

tcttgtacac ggaataagct caatgattca aaatataccta tggttcctgc gcatgagata 60
gctggagttg taactaacgt caatgcagat gacaaacgct ttaaagaggt tgaccatgaa 120
aataatgtaa catatgtgaa ctgttgccgt gattgtaaga actgaaat 168

<210> 19273

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-H3

<400> 19273

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atgtatccgg ccaagccac cgtcgccacc gccagcgagc cggtcaccgg gatggcggcg 120
ccgccggtga ccggcatccc catcagcagc cccggccccg ccgtcgcggc cagccagtgg 180
tcctcggggc tctgcgcctg cttcgacgac tgccggcctct gctgcatgac gtgctggtgc 240

ccgtgcggtga cgttcggggcg gatcgcgagg gtcgtggacc ggggcgcgac gtcgtgcgcg 300
 gcggcggggg ccattctacac gctgctggcc tgcttcacgg ggttccagtg ccaactggatc 360
 tactcctgca cgtaccgctc caagatgcgc gcgca 395

<210> 19274

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-H6

<400> 19274

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 taagcataga atctgagaaa gcaaaaccac tacctgttga gggatcgaaa ctgagtcctt 180
 cacctcttca ggctctgtct accccaaaag ctgcacacgt tgactcacca aaatctccca 240
 tgaaacctga gcagcatttc gattcagatg cggagcttgc aacctggga tcagagatcg 300
 ggaaagaaga caaagagtac tcagttgagg agataagcgg gtgggagttt gacgagctcg 360
 aagaggacct taagagctga cacaaagaat cgacaaacag aacac 405

<210> 19275

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-H8

<400> 19275

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 ccgtgcagc cgtgagtaag ttgcagtctg agtctgtcaa ggatgccatc tcccagattg 120
 ttgggggatgc caaggagaag aataggaagt tcaactgagac tgtggaactt cagattggtc 180
 tgaagaatta tgatccacag aaggacaagc gtttcagtgg ctctgttaag ttgccccata 240
 tccctcgtgc caagatgaag gtgtgcatgc ttggtgatgc ccagcatgtt gaggaggccg 300
 agaagatggg acttgactac atggatgttg aggctctcaa gaaaatgaac aagaacaaga 360
 agcttggttaa gaggcttgcc aagaagtacc atgctttctt ggcacacag gccatcatca 420

agcagattcc ccg

433

<210> 19276
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-011-Q1-K1-H9

<400> 19276

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gattccagcc ttcctctgtc gccagactga tcttctagt gctgctgcta agactggaaa 120
aattatcaat atcaagaaag gacaattctg tgcgccttct gttatgggtga actctacaga 180
gaaagtaagg cttgctggga atccaaatgt gatgggtctgt gagcgtggta ccatgttttg 240
ctacaatgat ctatttggtg acccaaggaa ccttgagtgg ctgagggaaa gcaactgccc 300
agttgtagct gatgtaacac atgctctaca gcaaccagct ggaagaaagc ttgatgggtg 360
aggtgttgca agcgggtgggc tacgagaact aataccgtgc attgcangga cttctgtttg 420
ctgtggtg 428

<210> 19277
<211> 57
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-A1

<400> 19277

acgcttggtc acctactaa caacagctag caactcttct tctcctgcaa taatggc 57

<210> 19278
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-A10

<400> 19278

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agcagcagca gtcaggcggc catggacgcc agcgcagcag gagccggcgg gaaggcgaag 120

aagggcgcg cgggcgcaa ggccggcggg ccgaggaaga agtcggtgac gaggtccgtc 180
aaggccgggc tgcagttccc cgtcggccgc atcgggcggt atctgaagaa gggccggtac 240
gcgcagcgcg tcggcacggg cgcggccgtc tacctggccg ccgtcctcga gtacctggcc 300
gccgaggtgc tggagctggc cggcaacgct gcccaaggaca acaagaagac ccgcacatc 360
ccgcgccacg tgctcctggc catccgcaac gacgaggagc tcggcaagct gctgtccggc 420
gtcac 425

<210> 19279
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-A12

<400> 19279

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gtgctaaaaa ccttggattt gctgcgatcg atgccttccc ttgttgatgt ggatgttcca 120
aacggtggac attttacagt ttgcggtgat gtgcatggcc agtactttga tttgctcaac 180
atatttgacc tcaatggcct tccatcagaa gaaaatcctt acctcttcaa tggcgatttt 240
gtggaccgag gatctttctc cggtgaagtc atactcacc tttttgcttt caagtgcctc 300
taccctaaaag ctatgtacct tgcaagagga aatcatgaaa gcaagagcat gaacaaaata 360
tatggctttg agggggaagt gaggtcaaag ctgggtgaga agtttggtga actttttgct 420
gaagt 425

<210> 19280
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-A2

<400> 19280

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cgaagagttc gtcaagggtca tgatggccaa gtgaggagcc gtccccgtta tctatgaatt 120
gaagttaa atcaggcaca caagctgtac tttgccatgt cccttttgag tacacatcag 180

tatcatgcag gaggtaatgt ctagtagtgg tcggtttagg tgggtgtagtc atgggaactc 240
gacatcagat acctgggtctc ttttgattgt gatgttatct tgcattattg ctccctgctgg 300
agcttttagg atttggttga agctcaaaaa aaaaaaaaga tataaaaa 348

<210> 19281
<211> 427
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-012-Q1-K1-A5
<400> 19281

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ggtacaacat ggaggcgccg cagacgtacg tggcgtccaa cgtggccggg ctcgtcagcg 120
tcttgagggt ggcggacaag cacgccgaac ccgaaaccgc tgtcctttgg gcctctgact 180
ctgtcccgtta ccggcttaac accgagacgc gcccttctcc gatgaccacc gcaccgaccg 240
accggcgctcg ctgtacgagg tcaccaagaa ggccggtgag gccatcgcg acgcctacaa 300
ccacatctac gggctctcca tcaccggcct ccgcttcttc accgtgtacg ggccgtgggg 360
ctcgccccga catggcctac ttcttcttcg cccgcagcat catgaccggc gagccccgta 420
cgctggtt 427

<210> 19282
<211> 254
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-A6
<400> 19282

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cctccggggg gctatataaa aacctatggg cctgcagacg aacgttgcc tcaatttttc 120
ctatctactt tacatacttt atatatttta caatcactcc tactctcaat cgccagtact 180
ctgatcctct tactatatct tataccaact caataccatc acaccattat ccttacatca 240
tcaactcccaa ctat 254

<210> 19283
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-A7

 <400> 19283

 caacgatgac ggcggcgggc gcaccggcgg tcgctagcag ggtgtgggag tgggaaggga 60
 aggtggcgctc ggcggtggcc gaggcgacgg cggacgaggc gtggcgctg ctgtcggact 120
 tcctggcggtt ccaccgggtg caccgcgcgc tggccgcgtg ccgcctcgcg tccggcaccc 180
 cgcgcgcgcc gggctgcgtg cgctactgcg agggcaccgc caccgccgcc gacggcgagc 240
 cggcgcccga ctggcgccac gagacgctgc tggagcacga cgccgagcgc cgtttcttcc 300
 gctacgagat gaacgacaac atcgtggtc 329

<210> 19284
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-A8

 <400> 19284

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 cgtcgtcgac cccggcgggc gtccgcgaga tgcagaagga tctcgaggtc caggccaacg 120
 ccctcagcaa gatccagaaa gacatcgcca agaaccacca ggtccgcaag cagtacacca 180
 tccaggtcgg cgagaacgag ctcgctctca aggagctgga gctgctcagc gatggggcca 240
 acgtgtacaa gctcatcgga ccggtgctgg tcaagcagga cctcgcgagg gccaaaggcca 300
 acgtcaagaa gcgcatcgag tacatctccg cagagctgaa gcggatggat cgggcgctca 360
 aagacttgga ggaaaagcaa aacagcaaga aggaatcgat attcaagttg cagcagagga 420
 tgcaggctgt acaagcta 438

<210> 19285
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-A9

<400> 19285

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gggtcatggg gacgtttggg tatgttgacac cagagtatgc gggcactggc atgttgaatg 120
aaactagcga tgtctatagt ttcggaattc ttatcatgga aataatatct ggccgtgtac 180
ctgttgatta caacaggccg ccaggggaga ttaatctagt tgagtggctg aagacgatgg 240
tcagcaacag aaattctgag ggggttttgg atccaaagat gactgagaag cctacttcta 300
gggcattgaa gaaggctttg ctagtggctc tgcggtgctg agaccctgaa gctcgcaaga 360
ggccaaagat tgggcatgtc attcacatgc ttgaggttga cgatttcccg tacagagatg 420
agcgcc 426

<210> 19286

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B1

<400> 19286

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cggcattgaa gatgtgagaa gagaagtgag aatattgagt tctctgacag gccacagtaa 120
tttagtgcag ttctacgatg ctttcgagga tgaagataac gtgtatatag ttatggaatt 180
atgtaaagga ggtgaactgc tggacaggat attggctaga ggtggaaagt actctgaaga 240
ggatgcgaag gtcgttatgg tacaaatfff gagtgttga tcattttgcc atcttcaagg 300
tgttgttcac cgtgatctga aaccagagaa tttccttttc tcttcaaagg atgaaaactc 360
tcccttgaag gtcataagatt ttggcttgtc tgactttgtg aagccagatg aaagactaaa 420
cgacatt 427

<210> 19287

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B11

<400> 19287

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tctccttgga accacccaag gtaggaggat gaccgttcga tttcatgatt gtaaattctt 120
cagtagtggt tcttttctcc ccgcctggcg attgcagaaa actgcatata cgagtgtaaa 180
tgtattttgc tcttcgatat ggttttagct ttcgtgttgt gcgaggatag ctccttaagt 240
gggatgtgtg atatagtctt ttctgtataa cacgttgtca tggagagatg ccttttagac 300

<210> 19288

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-H11

<400> 19288

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cctcttggtg cttccaaccg gattggcaga gaaactgttg aactgagca tggcaagagc 120
tcgataacct tctatgggaa ttccttcatt gcaggaccaa ccggagaaat agtgaagctt 180
gctaacgaca aagacgagga agtgctggtg gcagagtttg acttggatga gatcaagtcg 240
attaggcatg gttgggggat attcaggac cggcgccttg aactatacaa agtgctactg 300
acgttggtg gcgagaaaca atcataaacc ccggtctcac gcttaatagt ggtaaggcac 360
aggcaggctc cagctccaca tcaatgttag attttttttt ctcctttttt accctgtcca 420
acgatgccat 430

<210> 19289

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-F12

<400> 19289

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ggcataacat catgtctcaa tggacgttgc cgttgcacat tgggtgcattt tatttt 116

<210> 19290

<211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-F2

 <400> 19290

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 actgccaatg gctgggtgca gtcttatggg tcaagggtcg tcaagcctcc gatcatctac 180
 ggtgacgtga gccgacccaa ccccatgacc gttttctggt cgaagacggc acagagcatg 240
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 gtccggaatg accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag 360
 gaagtcgagg atcttgaggc tgggtgtatt caaggtatcc aaatcga 407

<210> 19291
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-F3

 <400> 19291

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 aaggatggct tggatgtcaa gtatgagaat gatgggagga ttttggttga aggatgcgag 180
 gatggctatg tgattgctca ttaccaagaa ccaagggata tgatgtgcct ctgggatcag 240
 tttcagaaaa caaaacgagg aacatgttgc aaataataac agaaatcatg cgaatggtgt 300
 tttatgttac ggtggctgct ggttgccggt gcttgaatag acacctttac gctaaaacgt 360
 tcttgatgta ta 372

<210> 19292
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-F4

<400> 19292

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tgcattccac atctattctg cctcggttg caccttcgac ctcgctgaaa gttctgacct 120

caaactgaaa ggggcctgtg aagcggttcc ttgcggcagt gcaatggagg tgaacatctc 180

tggttctatt ttcacgtcg ggtaacaaga aactaatcag ggagtctctt cccatttctt 240

gcagtggagg aatgttttagc tacagccgag cagcatgctt tccagagcat aaattggtgg 300

aagagaagtt tgatgctacc actttgccag aagaaccgag ccagacacaa taacatcaaa 360

ctgagtctga gatactgcac tttaaaatt ctttcgatat tggcagattg a 411

<210> 19293

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-011-Q1-K1-F8

<400> 19293

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gtacacagaa gtgagcgacg acctgacgac acaagttcag aacaagggtca tccccatgag 120

cagaatcgac gacgccgtct acaggatcct tcgtgtcaag ttcaccatgg gcctgttcga 180

gaacccttac cccgactcta gcctcgccgg cgagctcggg aagcaagaac accgggaact 240

ggcgcgcgaa gccgtcagga aatccctggt tctcctgaag aacggcaagt cctcctacgc 300

tccgttgctg cccctcccga agaaggccgg caagatcctg gtcgccggca gccacgcaa 360

cgacctgngc aaccagtgcg ggggggtggac gatcacgtgg caaggaagca gcggcaacac 420

cactgccggc acgacgatcc ttttcgggat cg 452

<210> 19294

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-G10

<400> 19294

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cgcgaggctg agctagcggt tggagttctc gagacctgct gtgatggcga cagagcaagc 120
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caacgacctc gagaagttcg tcaatgagca ggtctcatct cagacatata actgggatgc 240
aaatctcagc cttcttcgct tgtaccagag tgagccagaa aggatgagca tacagattgt 300
ggccacata ctgattaagg ctctcatggc aatgccagcc cctgacttca gtttgtgctt 360
attcttaatc cctgaacatg tgcaaatgg 389

<210> 19297
<211> 440
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-011-Q1-K1-G6
<400> 19297

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ggccaagatc cagggcaagg agggcatccc tccagaccag cagcggctca tttttgccgg 120
caagcagctc gaggacgggc gcacgctggc cgactacaac attcagaagg agagcaccct 180
ccacttggtg ctgcgtctca ggggcggcat gcagatcttc gtgaagactc tgaccggcaa 240
gactatcacc cttgaggctc agtcttctga taccattgat aatgtcaagg ccaagatcca 300
ggacaaggag ggcattccctc cggaccagca gcggctcatt tttgccggca agcagctcga 360
ggacggggcg acgctggccg actacaacat tcagaaggag agcacccctnc acttggtgct 420
gcgtctcagg ggtggcatgc 440

<210> 19298
<211> 406
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-011-Q1-K1-G7
<400> 19298

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gacagggacg acagggacga gggcgctggc gtcgtcacca ttccgcagat cgtcaggtac 120
ctccagggga agctggagcg gatcggatgc caggccaggt tcggatgatg atgatgacgg 180

tgatggttcg cctgcgttgc gtgcgcgggc gatcagcgta tcatcatcgt ctttgttctt 240
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 gcccagaatc tgttggtgtc gatcagtcga tagaggaacc aaagtgagtt gctgactgcg 360
 attggaagcg gagtgcgaatt ttctcttctg atggacattt ttttcg 406

<210> 19299
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-G8

<400> 19299

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 ttttcacagg aaggggatgg tccgaccacc gagactggaa gtatctctgg cctcaagcca 180
 ggcttgcatt ggttccatgt gcacgcgctt ggcgacacca ccaacggctg catgtcgact 240
 gggccacact tcaatcctgt tggcaaggag catggtgcac cggaagatga ggaccgccat 300
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 gacagccaga tacctcttgc tggaccccccac tcgatca 397

<210> 19300
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-H10

<400> 19300

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 gatgtttcgt tgaagatcat atactgtgga gtctgttatg cagacgttgc ttggacacgg 120
 aataagctca atgattcaaa atatcctttg gttcctgggc atgagatagc tggagttgta 180
 actcaggttg gtgcagatgt caaaggcttt aaagtgggtg accatgtagg tgttgaaca 240
 tatgtgaact cttgccgtga ttgtgagaac tgcaatatct gtctagacaa ccattgcccc 300
 aaagcagttt atactttcaa tggcattgat acagatggaa ctgtcacaaa ggggggttac 360

tccactcaca ttgtagtcca tgaaaggtat tgcttcaaaa taccgatgg ctaccctttg 420
gcga 424

<210> 19301
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-F11

<400> 19301

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gacccatctg catctgtatg tgtgcttgcc cccggccggc cacctttccg gccgatccat 180
catctagagc tagctcatca tcagtctttg gcgtgtgtgt atgtatatgg tggtgaccag 240
cagctagcta tagcagcagg gtggttgttc tatagttcgt tcctatgggt atggcggcgg 300
cggcggcggt actgctcgcg ctggccgccc tggcgacgga ggtggccgcg gcaggaacga 360
cgtacacggt gggcgcgccc gacgggctgt gggacatgca gaccgactac gcgcagtggg 420
tgaaga 426

<210> 19302
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D7

<400> 19302

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cctgccgatg gatccggccc ccccgagcc tgtccccga cccgccactg acaccgatgc 180
cgagaccaat ggttatgagg atgcctctga attcgaggat gcggaggctg ggggcgaggg 240
cgctggggcc gggaccgaga cggggaccgg gtccgggtcc ggaacgatgc cggcgggcgg 300
tgtagcggag atgaaggagc tgcccagga gcttgccaag ggggtggtgt gcctcgaatg 360
cgagacatcg gccgaagcgg cgggtgctc 387

<210> 19303
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D8

<400> 19303

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 cgcacgccag cctaccacct ccctacgccc gcttgcccgc ccgcaatcct gccaccgccg 120
 cgatctggct gcttgcccgc cacaatccag ccacccgcc gcgaccgctc cgtgcatgcc 180
 gcaaccgctg cgatccgccc gccctcctca atccgccgc ccgccgcaat ctggccgccc 240
 gcccgccgtg accggcgaga tccggtgcag cggcaaatgc aggtgtagag ggaggcgaca 300
 atgtcccaga tgctgtggag tgtgggtctg aaaaggacgg gca 343

<210> 19304
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-011-Q1-K1-D9

<400> 19304

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 tgtgaaaacc caattcttca accctatagg atccaacagg caatcgcagc tggcatctta 180
 cctttatcac ccttgttcct ccaacaatca tcagccctat tacagcagtt acctttgggtg 240
 catttattga cacaaaacat cagggcacia caactacaac aacttgtgct agcaaacctt 300
 gctgcctact ctcagcaaca acagtttctt ccattcaacc aactagctgc attgaactct 360
 gcttcttatt tgcaacaaca acaactacca ttcagccagc tatctgctgc ctac 414

<210> 19305
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E1

<400> 19305

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aattecgtaat gatgtggtgg gcaacattta atgtggtaca aatatactac tagattttct 120
gtgcattaca acggaacatg tttggtagta ttgtccaaaa aaaacttgtc aagctaaaac 180
caagatacag aggggtccgtg tcaacatgtt actatgtgtt ttcagtgtt tgttttttta 240
aaggaaatat cttgctgaag tatgcaaacc gtaatgtcta attaaactta tgattccat 299

<210> 19306

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-011-Q1-K1-E10

<400> 19306

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aggaaaggaa ggaagatgat gagcaaggag gcagtgtga acgcgttcct ggggtgcttc 120
atgcacgtgg ggctggcgct ggtgctcgcc gtctacctcc ccgtggcctt tgtgtgccgc 180
ctcctccacc gcctcctcgt ccgccccctc gccaggggag aggacctccg cggcaaggtc 240
gtcctcgtca ccggcgcgct ctcgggcac gccgagcacc tgggtgtacga gtacgcgagg 300
cacggcgcgct gcgtggcgct ggtggcgcgcc acggaggtgg cgctgcgcgc cgtggccaag 360
gcggcgcgcg acctgngcgc ccccgacgtg ctggctgtgc cggccgacgt caccaaggtc 420
gacga 425

<210> 19307

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-011-Q1-K1-E12

<400> 19307

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cggccgcagc cttcagcctc ctgtccccgg ccgaggccat gaagcgggag gacccccggct 120
 ggttcggcgg cgccgaggag ctgcgccagg gcgtctggac cgtcgaggag gacctctaca 180
 ccacgctcaa gaagaaggtg agccgggtgt acgccgcgcc gccggaggag aggaagaagc 240
 gcgtctacag caccgcgccg tccaagttca ccaccatcga tcagtatagc gggctcgggt 300
 tcaggctggt gaggatgggg ttcgaggaca tgtacctctg cagccccggga ggcatgtacg 360
 acaagttcgg caaggactac tttctgtgca cggngatggc gtccatgttg gtgcccgtcg 420
 tcgtcaa 427

<210> 19308
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-011-Q1-K1-E2
 <400> 19308

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 tttgctgctt ccaaaccac tctgcaaaaa tctgaaagtg ttgctgcagc aatagccggg 180
 gctcgaactg cagccactca attctcaaag aaggatcgca aagctgctgc tagtagtgaa 240
 attggtacag aagagcaatc ctggggaagc catggcggtg gcagttcagt tgattgcaat 300
 ggtctgtcaa ttgtccatgg cagctatgcg catctacaga accagaatcg gccttcaatt 360
 ttcccagca ctcaagcgaa ttcccaaat ccaaattctg agcctcggaa aaaccctaga 420
 ctagaatttg gagcttt 437

<210> 19309
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-011-Q1-K1-E3
 <400> 19309

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attgccgagt gccttgcaga tgagctgata aacgctgcc aaggctcatc caacagttac 180
gccatcaaga agaaggacga gattgagcgt gttgccaagg ccaaccgttg aactgagctt 240
gtatcctggt gcactctgag ctggaaactt ttatgtcgtt ggcagtcgta tcggttcttg 300
ttttaccaat gtttagagtt ttttgagacc tatatgcggt tttggttttc agtgcacaat 360
taaaattact gagtaatgta gttgattggg aa 392

<210> 19310
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E4

<400> 19310

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tgtctgcagt aacttctgtt gtggctcaaa accaggggac aaagtgcaga tcacaggccc 120
ctcgggcaaa ataatgcttc ttcctgagga tgatccaaat gcgactcata tcatgattgc 180
cacggggact ggtgttgctc cctaccgtgg ctacctacgt cgcattgttc tgggaagatg 240
tccccacttt taaatttggg ggtctggctt ggctctttct tgggggtgcc aactcttgcc 300
gccttctcta tgatgaaaag ttcacaaact accttagca gtatccagac catttcaggt 360
acgacaaaac gc 372

<210> 19311
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E5

<400> 19311

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catcatcaac gggatcagag atgagcgagg aaatcgatgt ccagcttagt ccagaggaga 120
aagaaagttt agatgagatc atcaaggaag ctgagagcga cttggagtct gaggaagtcc 180
tgatcaatc ccttgccatt gttgccgaga atgaaggtct ggacaaggac tcatctgcaa 240
aactcacaat ttacctgta ggtgggtgtt ggaagaatct gacatagggc cccttgagtg 300

ttatggataa gcacatatat gcaggacaca ctgtcaaacc atttcccagc ctgattggaa 360
ctggaaagtc tggttgtttc 380

<210> 19312
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E6

<400> 19312

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tgtctccttt gtcacatca tcagctcaga tctagcagct tcgccttctc agattctaaa 120
tgaaattctt ggagatagag agcgtatcca atctctgtat tctgagattc ctggggagaac 180
cacaagcaat gccagtacct ccagaagaac ttgtaatttc agtgtggacg caactggaga 240
tgaaagcctt tctgttgaag cacacaattg taaactcgac aatactgcgt ctattttatc 300
catgaggagc tgcgctgaca agctgtggaa gagaagaaaa ggttcaaaac tttaaaatca 360
gaagataaac cagaggaagc aatgcaagct ttcaagtat 399

<210> 19313
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E7

<400> 19313

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ttgctgaagt tgatagtgt tacatagtta agctctatta ttctttccaa gacgaagagt 120
tcttatact catcatggaa taccttcttg gtggagacat gatgacttta cttatgcgca 180
aagacacact aacagaagat gaagctagat tttatattgc agaaactggg cttggcatcg 240
agtctattca caagcaccac tatgttcattg gggatatcaa accagataat cttttggtag 300
atcgcaatgg tcaccttgag ctttctgact tcggtttggg taaacc 346

<210> 19314
<211> 434
<212> DNA

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<213>      Zea mays

<223>      unsure at all n locations
<223>      Clone ID: LIB3062-011-Q1-K1-E8

<400>      19314

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aatgtcgcca gaatgggtctg aaaaacatcc ataaattttc atggcctgaa cattgccaga    120
actattttggc acgtgtagtgc actctcaagc ctagacatcc ccgctggcaa aagaatgatg    180
ttgcagctga aatatctgaa gcagattcac ccgaggactc tctgagggat attcatgaca    240
tatcacttaa cttaaagctt tccttggaca gtgaaaaatc aggagcaaaa gaaggggaatt    300
caaatgcttt gagaaggcat tttgaggatg cagcgcaaaa gttgtcaggt gttaatgaca    360
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tcattgqaat tqct                                                    434
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<210>      19315
<211>      425
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3062-011-Q1-K1-E9

<400>      19315
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<223> Clone ID: LIB3062-011-Q1-K1-F1

<400> 19316

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tgaattgggc actagttgaa ggccgacctc catctgctgc tgaatgtcat cactgtggta 120
ttaatgcaac agctacacca atgatgcgtc ggggacctga tggaccaaga acactatgca 180
acgcttgtgg cctcatgtgg gcaaataagg gtctcctgag ggacctatcc aaatctcctg 240
tacctcttca ctctatacaa caatcagctc caattctaaa tggtggtcag aacggaagtg 300
ccatgtctgc gcttggctct gagctagaga atgctgcagc agccatgggc aatggccacg 360
agccataagg tagtggtggt tagccatgtg ctaaagccac gagcatcatc gcgcaatgat 420
ctctgc 426

<210> 19317

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-F10

<400> 19317

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aggcttacta tacctggaaa ttctaccatg ggtgtgaggc cagcttatgg tcatgttaat 120
ggagggcaga tacatggtct taaaaacctt ggttggttctt cgggtacctga tgctcagcca 180
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gcctttgacc aggaaagctc ttccagatca gtgaacttaa gcttaggtca ttcaactcct 300
acagatattc gcagaatcag aatgaatgaa caatcacttt gtcaacaaat accacgaagc 360
agcagcagaa gccatcagga atcggcaggt tcagttagga caagacgacc ttctcctcat 420
gccact 426

<210> 19318

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D6

<400> 19318
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 cagcacgaca gcgccccagg gttcctactc tcgtcgcagc ggcagcactg aggggaagat 120
 gtctgtcggtg ttcagcggcg atgagaccgc ccccttcttc ggtttccttg gcgcccgcgc 180
 cgctctcggtt ttctcatgca tggggggcgc gtacgggacg gccaaagagt gcgtcggcgt 240
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 ggctgggtgtg ctgggtatct acggcctcat catcgccgtc atcatcagca ctgggatcaa 360
 cccaaggcc aagccatact acctcttga 390

<210> 19319
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C2

<400> 19319
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 ccgttctctg cccgtgagcg cccggatccg tcccgccgca aggattatgg atccgaaaga 180
 gaagccaaat gtatcgagca gtccaccaac accacggctg gactgcataa aatgctttga 240
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 gttcgacacc tgcttcggca agtggggcga tcttatgggc tgcctcgctc tcaagacaaa 360
 gcggaaggca gaggtggagg agatcctcat cgcgcgggag aaggccaaac cacatatctg 420
 gacctaacgg ac 432

<210> 19320
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C3

<400> 19320
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ttgtgaaggc gttgcaagca catatcatta actgggatat tcatatgttt gatgaggaga 120
 tcggcaatac cactcagaat gaagatggtc aaaatcttga tgttttcttt ggttgcattcc 180
 gcattctgga ctattcctga cagcatttaa gtttttatta cggttcaacg gtcgtccagc 240
 gtaatccttt tacaaccatg ggtggcaagt ttgaccatgc agatcgtttg ttccaaagca 300
 ttgagaacgc ttacataaat agcttatcaa atacaagtga cgtcaaagag cttattccag 360
 aattctttta catgcccagag tttcttggaa attcaaattc atatcatct 409

<210> 19321

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C4

<400> 19321

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 aatgtctatg gtgcaatgag gttaattcaa tctgttattc ctcacatgat ggaaagaagg 120
 aaaggaacaa ttgtgaatgt tggaagtatt accgctctgg cacctggacc atgggctggt 180
 gtgtattcag catccaaagc tgctcttcat gcattgagtg actcgttaag ggttgaacta 240
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 aattcttctg cagccaagta tgatcagatg cagcagtgga agtactacaa gaaatacag 360
 gaagggctcc gagccaggac tggcatttcc cagggcccca agtccactcc agcagaagag 420
 cttgcaaagg 430

<210> 19322

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C5

<400> 19322

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gatacgtgag taacttcccc gtctacgacg gccgcggccc cgacgccagc cttgtggccc 240
gcgtgcaggg gatcaccagc gaaatcggga acgcgcacca actgttcgtc gttgtgttcg 300
acaccgacag gctcaagggc tccacgctcg tcaccaatgg cgtgataacg ggcggtctg 360
acgagtgggc gatctacggc ggtaccgggg tgtttgccat ggccaagggc ggtataagga 420

<210> 19323

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C7

<400> 19323

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gctcaagatc cccggggacg agtacgccat ggtgtgcacg gccaacagga ccgcggcgtt 120
ccgcctcctc gccgagtctt actcgttcca gcccggaag cagctgctcc ccgtgtacga 180
ctacgagagc gaggcggtgg gcgccatggc cgacagcgcg cgccgccggg gcgccgaggt 240
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gctggccagg ggccggcgcc gcggcgggcg gggacgcggc ctcttcgtct taccgctcgc 360
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<210> 19324

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C8

<400> 19324

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ccctgtgagc taccgtgatg ataccaatga aatggttcct cttacagaag atgacttgcc 120
cttgacctt cctgaattgg atgatttcac tccaactggt actggggagc cacctttgac 180
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aacaagcacc atgccacaat gggctggatc ttgctggtac tatttgaggt tcatggatcc 300
caaaaactgc agtatattgg ttgataaggc taaagaaagg tattggggtc cagttgacat 360

ctacgtaggt ggtgctgaac attctgtctt gcacttgctt tatgcaagat t 411

<210> 19325

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C9

<400> 19325

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agaagcgtgc ggcgggaaca cgtgttgccg agctggaggg caagctgggg aaggtgcaag 120

aggagctcaa gaagctgccg gagcagctcg cgtccgccga ggccgccaag aaggacgcgc 180

aggctcgcgt cgaggaggcc aagaagcgcg tcggtaccaa gggaagccca gcctccacca 240

ccaccaccac tcctctctcc ccccttcgcc tggggtcgaa atcgccaaga agaccgagga 300

gctgaagctg cctcagccgg cagccgagga ggagagcagc ataaacgccc cggcgaccga 360

tgtgttcgag gtagtccggg ccgagtcggg ggacaaggag aaccagagcg cggccgagga 420

ctgcg 425

<210> 19326

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D1

<400> 19326

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gaagctatta cctcttgga tcttgtaatc ctgcaattta tgtcttgggg atccgaattc 120

atttcatgaa tttacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaataaaaaa acgcaagcaa atatacaaga accagcaata caataaacat gcatgcaaag 240

acaacagaaa atcaataaag tgacctaat ttaacaaact gacgcctgtg aaaccacggg 300

gggaccgcaa aaaccctgcc tttacccaaa ttcattcttt tgca 344

<210> 19327

<211> 404

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-D10

 <400> 19327

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 ccgcaggacg catggctcgt cgagctcggc agtcgcctcc cgcagtggga gtcgctgcgg 240
 gattcctcca aggtcattat cccgatttca atatctaggg tgaaccagtt tgatgctgca 300
 aggctagatg ttgagatgtc ggccatgttg aaagagcagc tagtcaaagt gttctctttg 360
 atgaagccag gactcttatt ccaatatgag cctgaacttg atgc 404

<210> 19328
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-D11

 <400> 19328

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 cagttgtcga taaaggagat ctttctccac aatggcaagg ttctgaatgg aagacattga 180
 aggtcaaatg ggacgaagcc aaaaacttaa atggccctga gagggtttcc tcttgggaaa 240
 ttgaaccggt cgatgcatcc gcacctgcca tcaccatgcc cgtgcaacca gcaatgaaaa 300
 aaaaaaggcc tagggagaca cctgaaggcc tggatattca tgcaactggaa cctgctcaag 360
 aattctggct ctctggaagg cctgaacagc atgagaagac aagcgtaagc tccagcgaac 420
 ccaaacatc 429

<210> 19329
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-D12

<400> 19329

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catttatgta ttgcaatgt cagccttgta catcaagttt atcatggatg aggattatcc 120
aacagtatgg aaggctttca aacactctcc cgcttctttg gggcttctga tatattgttt 180
cattgctctc tggtttggtg gtggactcac tggatttcat atgtacctca ttagcaccaa 240
ccagaccacg tacgagaatt tccgatacag atcagacagc aggcctaaca tctatagcca 300
aggatgtctg aataactttc tacaagtctt ctgcagcaag aaaaaacctt ctaaacacaa 360
gttccggggc tacgcgcaag aggaagtgcg gcctacaacg gttagcttcg gcagggaggt 420
cgat 424

<210> 19330

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D2

<400> 19330

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cgctttcggt cgctcccaga cattctagcc ctctcgagta gctagctcga gcggtgcatg 120
catctgtagc tacctagccg acatgggcaa agatgaggag ggcgcgcgtg cgctgcttcg 180
tgccctctct ggtgttggcg agaggccggc ccagcaggcg cgccttccgc gcatggcggg 240
acagagacga ccaaggaacg gaggtggcgg tgatcgcca atccgaggct gaaggagcta 300
gctaactggt ggtgtggtgg tgggtgctggt gtgtgtaggg tctaactcga tcggcgatgt 360
cggcggcagc atacatggga aagccaggca tttttc 396

<210> 19331

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D3

<400> 19331

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aggcgtgtca tgcccatata tctgtggcag gcaccttgac catggtgttc tccttgttgg 120
 atatggtgct tctggtttcg cccccattcg cctgaaggac aagccttact ggatcatcaa 180
 gaactcgtgg ggcgagaact ggggggagaa cggatactac aagatatgca ggggttccaa 240
 cgttcgcaac aagtgcggcg tcgattccat gggctctacc gtgtccgcag tccacgcctc 300
 gaaggagtag actctggtca gcggtgataa tcgtgaatcc atatattgga gaactataat 360
 ccctgctagt aatccattt 379

<210> 19332
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-011-Q1-K1-D4
 <400> 19332

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 tgaaggcata gaaataattg tttcaggagg aatgactatg ccgcaggatga tcatgtcact 120
 ggaaccaaca cctcggaaga gccagaacgt ccgtttggac agagtgagga cagtatgact 180
 gtatgaggca tgcataaaag tgatgggtgt ttcaggatgg cttgttggtt atggattcaa 240
 agctggggca tggagcttga gacaatcaat ttgtagattg cattcagaac ttgcgcatta 300
 ttggcagata catgacaacc tcacactaac ttgcgttgct atcagttggt gacacgaaaa 360
 ttgcagctcc acttacaatt acaagcacga catgcacttt taactgatc 409

<210> 19333
 <211> 301
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-011-Q1-K1-D5
 <400> 19333

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 ctgctcggaa gttggtgaag gtttcttgaa gctgagaaga tgggtgctgaa gacagaactc 120
 tgccgcttca ggggccagaa gatttatcct gagaaaggca tccgatttat ccgagctgat 180
 tctcagggtta tgctttttgc caactcaaaa tgcaagctct acttgcacaa ccgactgagg 240

cctccaaagc ttacctggac agcaatgtgc ttgaagcatc acaagaagga tagccatgct 300
g 301

<210> 19334
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C12

<400> 19334

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ccaccatgga ccgcgcgcgc gggggctcgt tccagatccc cgcgggctcc ctcaccgtct 120
tcttcgtcgg ctccatcctg ctcaccgtgc ccgtctacga ccgcctcgtg gtgcccgtcg 180
cgcgccgcgt cageggcaac ccgcacggtc tcaccccgtc gcagcggatc gccgtcggcc 240
tcgcgctctc cgtcgctgcc atggcgggcg ccgcgctcac ggaggtcgc cgcctccgcg 300
tcgcgcgcga gtccgcctcc ggaggcgctg tgcccatgtc ggtgttcttg ctcatcccgc 360
agttcttctc cgtagggggcg ggcgaggcgt tcacgtacat cggccagctc gacttcttcc 420
tgcgcgga 427

<210> 19335
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-011-Q1-K1-A6

<400> 19335

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tgtcaagtgt ctatgcacan gagattngat gatgnnctga gggcctggac aagaattgag 120
aanctgcag agtccatgac aacaccgaga tatatganng aaggctgtga agatgnctgg 180
aatcctactg gentggagga nggaagatga nntgccatgc cctcaggncg gacaatccnn 240
ccagaatggc tttcaacttt tgaggaaccc agtccttctt ggttccatca ggnntggatt 300
caacttgttg cttgaagaaa tgccgcattt ggaatggccc gcttgtgccg attatnngcc 360

ttggcttagt gctttctggg cttaggtca

389

<210> 19336

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-011-Q1-K1-A7

<400> 19336

ccaaaattcc cggcgaagat gggtactggc aaaacggaaa aagtggctaa agcacagcgt 60

ttgcaacgag atgatattga gatggtacca gcataacctg tccgagatga agaggatacg 120

tcttcatctt ctggtgaatc agatgtttcg gaggatgaac tcgatgatta cagaaaggct 180

gaagtactag cctatgctaa gaagatgctg aggaagaaac agagagagca gatacttgat 240

gatgcttaca acaagtacat gtttggatgat gaaggggttac ccaactgggtt tgttgaggat 300

taaaaaaggc ataggcagcc catgaagcct gttacacgtg aggaagtagc tacaatgagg 360

gctcagttta tggagatcga tgcccgacca tgcaagangg ttgcagaggc caaggcccgg 420

<210> 19337

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-A8

<400> 19337

ctaggcgaga gcacgcactg ctggcgggcg ggctaagacc gagagccgcc gcgcacatta 60

ttgttcgcgc gagggcagcc gccggttgca ttgcatggcg cagctgccgc ccaggatccc 120

gaccgaggtg caccactggc ccgagggggg ccagcacggc gcggcgggcg cggcgtgggc 180

ggacgacttc gccgagttcg cggcgggcgcg gcggggcgcg caccgcaggt cgctcagcga 240

ctcggtcgcc ttcgctgagg tggcgccggc cgacggcggg gccggcgagt tcgacaggct 300

cgacgacgac cagctcctgt ccatgttccc acccgacgag gccggcgggca gcggcgggcg 360

cggcggggtcg tccgcggccg ggtccgagaa cggcgggcagc agcgacagcg acggcgataa 420

gcgtggcgcg cgcg 434

<210> 19338
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-011-Q1-K1-B1

 <400> 19338

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 gggtcccaaa ggataagtcg ctattttccg ctgctcttgg cacaggaact caactatttg 120
 ctctcacaac ctttatattc cttcttgacac ttgtcggagt attctatcct tacaaccgtg 180
 gtgcactatt tactgcattg gttgtcattt atgcactcac ttcaggaatt gctggataca 240
 ttgctacctc tttctattgt cagttggagg ggacaaactg ggtgaggaac ttgctattga 300
 caggatgcct attctgtgga cctctcttcc tgacattttg cttcttgaac accggtgcta 360
 ttgcttatag tgccacagca gcactgcctt ttggcactat ctgngtcatt gggctcatct 420
 ggaccttggg cacatttcct ttgc 444

<210> 19339
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-B12

 <400> 19339

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 tgcagtgtct cagacaaaac cacgaagggc taagtacagg caagtaaatag ctgcagacaa 120
 atctccatgt cctgtgaagg tgaatcaggg gaacagcgaa gccgttagta aggagtctct 180
 atcttgtgga gaaatgctat ggcagctctc tgtagcagca tgtggtcttc agcagagaga 240
 gaaaatcggt cctacaagtg ttaacttctt taccggtttt agaaagaaca aattttctag 300
 ttctgatgtc aatgagggga tgctgagaa ggcagccaac actgagtcca ctctttcaga 360
 acagcccatt gctgatcata tgcaggatga ctattgggct gacattctca ttaatgtgga 420
 ggagccg 427

<210> 19340

<211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-B2

 <400> 19340

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 cggccatgac tgacgacagg tggactaaga cgggtgttcc tctcagtcct ggtcgtgatg 120
 ttcacatgga cctgccaaat ggaacatcag ttgtcaacta ccgtagctca agaggtaatc 180
 atggtgtttt aaggaatcca cgtggccaac catcaaatca atatggtggt ggtcttcttg 240
 caggacctgt gcattctggt gggcctcaag tacctcgag cggtctgat tctgatagat 300
 ggcagcaaaa gggctcatg ccttcccctg tcacacccat gcaaacaatg cacatagcag 360
 agaggaagta tggtggtggg aaagtttctg atg 393

<210> 19341
 <211> 74
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-B3

 <400> 19341

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 tgggcacttc atat 74

<210> 19342
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-B4

 <400> 19342

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 ttgtacaaag ataaataaga caattcatca aatctcagaa aacgtcaagc agcttgagaa 120
 gcaaaagagg aaggcaaagg acgacagtca tcttattccc ctagaacat ggtcagagga 180
 attttcagaa gctcatgacc atgttgctgg cggtagtgcc agtgacagcg gattagctaa 240

gacaagggtac aacaggatct taaataagcc ccggaagtca ttcgagtcca gattgcgcaa 300
atggttctag caaccaaccg gtgctagtgg gttaattgat tttgatcaaa agaggcgggt 360
aaccttttcg ctccggttgt ttgacaaaat gat 393

<210> 19343
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-011-Q1-K1-B5
<400> 19343

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gcaggcgagc gatttcattc gacatgaatc ccgagtagca ctaccttttc aaacttctgc 120
ttattggtga ttctggtgtt gggaaatcat gcttgcttct cagatttgca gacgattctt 180
atttggaacg ctatatcagc acaattgggg ttgatttcaa aattcgcaca gtggagcaag 240
atgggaagac cataaaactt caaatttggg atactgctgg gcaagagcgc ttcaggacaa 300
tcactagcag ctactaccgc ggagctcatg gaatcattat tgtatatgac gtgacagacc 360
aagaaagctt caataatgtg aagcaatggt tgaacgaaat agacc 405

<210> 19344
<211> 417
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-011-Q1-K1-B6
<400> 19344

gagttccatg cagctcctgg agagaggagg gtgtctttgc tgtaccttgc gaatgatggt 60
atgcagaata gcagaaaaga aggtaatgga tatatagctg aattcatgag ggatcatcct 120
gctgccttga atggagtgtt gactgtaaga gatgattttg ggcggaatgt cccaaaaaga 180
ctgattgaca tatgggaaga ccgtaaaata tttgataccc aggcacaaag cctgaaagat 240
gattttttca ggagggttaa ggacattaga aaccagttgg cagtgagcag ctggagaagg 300
ttgtctctag ctacaaacat gtcttgaatg ctcttatgga tgaggatact ctgatgcgaa 360
aatgccaaag agctcttata aattttgatg aactcaataa aacatatgga aataact 417

<210> 19345
 <211> 282
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-011-Q1-K1-B7

<400> 19345

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 aataatnann tttcacaatg tggtggggtg ttnnnattatg tacccaatgc cncnnattgt 120
 gtaccccatga gtnntcatan ntttttctta ttttgatctn nttgaannca tttcatttag 180
 tnnatgcatg tngnnactgt tgcangnnat tgatttgctn nngctggtag gaacgttttc 240
 ttacgannga aaattggagc cattattagt taatnnagta gg 282

<210> 19346
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-B8

<400> 19346

gtactgtaca gaagcatata cttcagggag gcccgaagcg tctaactttc actgtgccgt 60
 cgtagtagtatt ctcttctctt aagctgggtca ggcgattaca aggccaagat ggagatgtca 120
 ctgggggagga tggttctgca actccaaaga aaatattcca gatattgcat cagactattg 180
 aagcactttc ttgtgttctt tccccagagt tagctctgag actatatttg cagtgtgcag 240
 aggctgccaa tgactgtgat ttggaaccaa gtgcttatga gttctttact caagcgttca 300
 ttttatatga agaagaaatc acggattcaa aggctcagat cactgcaatt cacctgataa 360
 ttgggaccct tcagcggatg aatatatttg ggggtgggaaa tagagacacc cttacttac 419

<210> 19347
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C1

<400> 19347

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aagtgggagg catcaccaga tgatgatata agacattggg ccaagttccc atcatttacg 120
cctcttctgg gtcagattga gacagatggg ggcaagtctc tggacttttag caactatcct 180
tatatatatta tgagatggaa agagcaatat tttgtcaacg ttggagtcga ctgtgggtta 240
accatcgctg gtttctacta cgtctgcttt tcttgtagcg atggctccat taatggattt 300
tattatgac caaatagcag tccatttcag aagctcgagc tgaagtgtac caatgagaaa 360
aaatccgggt tcaccttttc atcctacgag ctgcaatgac aggacagatg cccttgacag 420
acaacttttt ggt 433

<210> 19348
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-011-Q1-K1-C10
<400> 19348

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cttcttccag ctttaccacc agggtttatt tagggaggag cttgcacgca tctacactgc 120
tgaaattgta tctgcggtcg cccacctcca tgccaacggg attatgcata gagatttgaa 180
gcctgagaac atcttactgg atgctgatgg tcatgctatg ctgactgact ttgggtgtggc 240
aaaagaattt gatgaaaaca ctagatcaaa ctcaatgtgt ggtactgttg aatacatggc 300
cccagaaatt gttcagggcc gaggtcatga taaggctgca gactgggtga gtgtgggagt 360
ccttcttttt gaaatgctta caggaaagcc accgtttgtt ggtggaaaca gagacaagat 420
tcagc 425

<210> 19349
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-011-Q1-K1-C11
<400> 19349

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agaaatgatg gtcgccaggc tgcttaactt ggaagaggct gagaaggaac gaatatacga 120
 gaaagatggt gacatgaaat atgtgcaggg tgaacagcat gtgggttgaa gagaggacag 180
 tgggtgtgaat gctcatagta cttcaagggt tgggtgaagg tctaattgtg atgaattaga 240
 tgtctctcgg aacagtacga gagctggtaa aggacgttct ggtggatctg cttctgccga 300
 acttgaatca tttccaagca agaagccgaa atacgatcct gttttgccag cttctaaatg 360
 gagtcgagag gatgacatca gtgacgatga agataggaaa ggtggccgag gcttgggatt 420
 aagctatt 428

<210> 19350
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-A5

<400> 19350

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 caaaggataa tcctctatcc atgcaagatg cgttggacga ctacaagagg ctagattacc 180
 tccagcgcca catctcagtt atcaaagaat caatagactt gggggcggac gtgcgcggcc 240
 acttcacatg gtctctgttg gacaacttcg agtggcttag tggctacacc gagcgttacg 300
 gcatcatcta cgtcgaccgt gacgacggct acaggcgcta cctgaagcgc tcagctaagt 360
 ggctgcgaga gttcaacgga gctgccaaaa aggctgaaaa gaaagttctt acgccagctt 420
 a 421

<210> 19351
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G6

<400> 19351

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tgacatatag gaggagcaca agagagcagg ccatcatcca gtccacacac tgcggcgacc 180
acaagccagt cttttcccggt tgctcagacc caaaacgatc cagcggcaca tcacatcaca 240
gggcacagcg agtcagcgaa ccacaccctg aagagagaac acctctctcg cgctctacaa 300
taacgttccg 310

<210> 19352
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G8

<400> 19352

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gcgcaattgg ccgctcctga ccagacgccg gatagggctg gatttgattg gattggatcc 120
ccaattgtgt ttgccacgtc cgtgcgttcg ggcgggcggg ggagttactt taggggtttcg 180
gcgggtgcgg tcgccgtgta ggcggtaggg ttttgccatg gcggagaagg gctgcctcaa 240
gcggctccag aaggagtacc acgccctctg caaggagccg cctccgcaga tcgttgctcg 300
cccgtgccc aacgacatac tggagtggca ctatgtactg gaaggaagta aaggaacgcc 360
ctttgaaggt aaagatcata cataatatac cacattatct actgcctcca atatttgttt 420
tggtacttat aaatctc 437

<210> 19353
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-G9

<400> 19353

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acggtcatcg ccgtggcgtc cgtggcgggc ggcgacatga acgcggacaa gacggagtgc 120
gcggaccage tgggtgggcct ggcgccgtgc ctgcagtacg tgcaggggca ggccccgcgcg 180
ccgtcgaccg actgctgcgg cggcctgcgc cagggtgctgg ggaagagccc caagtgcctg 240

tgcggtgctcg tcaaggacaa ggacgacccc aacctgggca tcaagatcaa cgccaccctc 300
 gcgctcgcgc tccccaacgc ctgcgggcgcc acccgcgcca acgtctccca ctgcgctcag 360
 ctctgcata ttcccccggg ctccaaagac gccgncgtct tcagccccgg cggcgacaag 420
 g 421

<210> 19354
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-H1

<400> 19354

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 gatcccatg gcaatgctgc cgcgtccaac agcgtcgtc gcagcgggtg tgggtggcggc 120
 ggcgctggtg ctcgggatgg cgtcggcgca ggggccggcc gccgcgccc cgccggggccc 180
 ggcgcccggg atcagcgacg agtgcttcaa cgcggtgctc aacatgtcgg actgcctgac 240
 gtacgtgacg gcgggcagca aggcgcggca cccggacac 279

<210> 19355
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-H10

<400> 19355

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 gagattgcag tccacagcca ttgggagcag gccttcaaga tttcctgttc atcccatggg 180
 ttcaatcaat ctgcttccgt ccttctcgta taagtcacac ttataccttt attttagaaa 240
 tatgttcctt aagaaccttg tagctgcaaa tataaatgtc atgaactttt ctttattcct 300
 gttcgtttct tgctgtttct acatttcaga ggatattttc cttgcactgg 350

<210> 19356
 <211> 418
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-H11

<400> 19356

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ttggtgtagc tggagcctgg agccggaaag gacacacgat gaatcaggag gcgaaggact 120

cgaggccctc aaggtctccc agcgagccaa acctcttctt gcaatggggc agccggaaga 180

ggctgcgatg cgtcaaggcg cgtgacgatg gctcgccatc gccgtctgaa ggtcttagac 240

gcgccatacc ccgtgctact agggccctcc ttggagctga cattgcggca ttccggcgcc 300

ctagcacctt taaccgcagg aaatcagatt cactagttaa cgagtacagg cactcgatgg 360

cgctatcgct ggagaaagac aagtattaca caacgagggg ttcaccgttc gatggaaa 418

<210> 19357

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-010-Q1-K1-H12

<400> 19357

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tatgcctctg gattaactat gcactctatg angagctaga cgcacaagac agagaacgga 120

caagagaggt ttacaaggaa tgcctgaggt tgattcctca caagaaattc acgtttgcaa 180

agatgtggct catggcggcc cagtttgaga tacggcagag aaatctaaag gctgcaagac 240

aaattcttgg aaatgcaatt ggaatggccc caaagggcaa gatattcaag aaatatattg 300

aaattgagct ttatctgggc aactttgacc gttgtaggac tctttatgag aaatatattg 360

aatggtcccc agcaaactgt tatgcctgga ggaagtatgc cgaattggag aagaacctta 420

gtgagactga tc 432

<210> 19358

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-H2

<400> 19358
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gagaagatgc aggggcaggt ttaggacttc tatgaggaca tctatgagga gttggggaag 120
tttggtgaga ttgagaatct gaatgtttgt gataaccttg ctgaccacat gattgggaat 180
gtctatgtcc agttcaggga ggaagagcaa gcagccgcag catacaatgc tcttcagggg 240
cgcttttact ctggccgccc tataattgtt gagtattctc ctgtgaccga cttccgtgaa 300
gcaacctgta ggcagtttga ggagaacagc tgcaaccgtg gtggctactg taatttcatg 360
catgtgaagc aaattggcag ggatctcagg aggaagctgt atgggcgttc tg 412

<210> 19359
<211> 385
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-010-Q1-K1-H3
<400> 19359

caagtgtgtg tactagcaac cagctagctc gttcggcagc aggcagccat catgtcggag 60
gggaagcacc accacttctt caaccaccac aagaaggacg aggagcagcc cgccggcgag 120
tacgggtact ccgagaccga ggtggtcacc gtcaccggcg agggcgagta cgagaggtac 180
aagaaggagg agaaggagca caagcacaag cagcacctcg gcgaggccgg cgccatcgcc 240
gccggcgccct tcgcactcta cgagaagcac gaggcgaaga aggaccccga gcacgcgcac 300
aggcacaaga tcacggagga ggtcgctgcc gcggcggccg tcggcgccgg cggctacgta 360
ttccacgagc accacgagaa gaaga 385

<210> 19360
<211> 347
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-010-Q1-K1-H5
<400> 19360

ggcgcgccgt gtcgcccgcg tgctatgttt catcagttcg acgagcggct gcgtgtgggc 60
acgtgcaagc agccatgtct ttttgcgtat aggggtactgg ttgctttact ctatgggctg 120

gaccgctggg ccaaaatttc caaattccaa tcaaggcaga tggatcgtcc atgatttaat 180
 cggacgatca agtttctggg cgctctgatt acgtcgttac cgctgatcag cttcacagtt 240
 acgatggggtc gattaatcat gattaatgga cgatctgaaa aactgcaag taactttgta 300
 atacagactg gtgcttgtgg cggccacact gcacgacaca ttggaca 347

<210> 19361

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-H6

<400> 19361

tcgccgagct tttgctggag aattcccagt tatccaccgc aaatctttgg ctcatagttg 60
 gggtttttcac accaacacac tccatgtttc tgcttaaatg atccgcgtat gaagttaaac 120
 tgttccttct tgcgcaaata agtggggcct tcaaaaagat caaggcattg agctggctct 180
 ttctgcatat tttgagcctg ataccgtct tcaactgttg tgcaacacca ttaccgcggt 240
 gctgcgtggg ggcttctgcc ttttctttga ttcggcaata atgctctt 288

<210> 19362

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-H9

<400> 19362

ggttcatcaa tttgcaagtc atgttcctta aatgatacag caagtcaaac agtccaaga 60
 gggctgacaa acatccaagc aaatgccgtg gaggagacca gcacatggcg tgctgcattg 120
 gatgcgtcga ttaacgaagt gctgttccag atcataaagt tcgccaacga gaaaaaggac 180
 cacattcctg ctatccctga caggattttc aatcacgaga tcatgatcct aagctcggat 240
 tatgtatctg tatggaacac ggacgtcatt cgcagagttc tgaatagcgg gcaccatac 300
 tcgctctaac tgaagacgac a 321

<210> 19363

<211> 429

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-A10

 <400> 19363

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 aggtttttat gtagctgaag gtgcaaaaat gtgtagtggt gagcagggtca gggttgcaca 120
 agctctttat gtatctggta gcctgttcaa tctcatgt cagcccaatg tgcacgcata 180
 ttttctttca cgtgcggttcg tgctgagaac tactgaattt ataaagtccg ggagcccagt 240
 tgaactgtca tatgggtccac aggttggcga gatgcatatt tcagagagac agaagtcact 300
 tcaagagaat tactacttca gttgtcaatg ttcaagttgt tcagagctaa acctatcaga 360
 ccttggtatg aattcattct gttgtccaca aagcaactgc cttggtgcca tatcggaatc 420
 aacttacta 429

<210> 19364
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-A11

 <400> 19364

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 cgagtcgggc gaaagaaccg cctgtagttc cagagtagta cctcatggcg gccatatcgt 120
 cgcttccctt cgcgggcgctg cgcgagccg ccgagtggag gccgtcgctg acggcgggcg 180
 ccgtctccg cgccgtcgtg ctcaagcgca ggtctcgccg gggctcgcg tcggtggtgc 240
 gatgtgtcgc cagcaggggt gatgtccac ccactgtcgc agaaacaaaa ctgaacttcc 300
 ttaagtcata caaacgcca atcccaagca ttacagtgc agtcttaca gaacttttgg 360
 tgcagcaaca cctgatgaga tacaaaaaaa cctatcagta tgatgctgtg ttgctcttg 420
 gcttcgtcac tgtctatgat cagct 445

<210> 19365
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-A12

<400> 19365

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ggattgggat cgggttcggt gtcggctgcg ggttcggcgt cgggtggggg ttcggaggaa 120
tgcctcttaa cacgttcggc ttgggtattg gtgggggctg cggagttggt cttggactag 180
gatggggctt tggaaatgct tttggttgct agtatcgatc ttcaagagtc cagctccagg 240
gcattgaatt tcagaagaag gctggaggag atgaatcaca aaaagttggt tcacctgagc 300
ttgctgaaaa gtctcatcct tatggctagt atgcctgcta ccacaaaatc cacagagact 360
gagttctgtg tgctgagttg cagtttaatt acatatatgt gagttctttg ttagtaatgt 420
tatgcta 427

<210> 19366

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-A2

<400> 19366

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cagctgggac ggcgtgcact tcacggaggc cgccaacgcc atcgtcgccg ccaagggtgct 120
caccggcgac tactccacgc ccagggtcac catcgccaaa ctcgtaact ccacgtgccc 180
caacgacgac tagctggctg gccgatcgat cgatcgatcg tcgtcgctgt cattctgatg 240
aacatactgc aggctgcagg cttcatcgat ccatatccaa ttgtccgtag aaatctacga 300
ctagctcatt gtagatctgt aatgtgggct aagagatgca tgacgatcga ctatagctgc 360
ccaacatcgc aagagctggg tcaccggcct cgatcatgatc g 401

<210> 19367

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G5

<400> 19367

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atgatggaag aatcactgat tcacaaggca ggactgtcag cttcactaac tgtgtcataa 240
tcatgacatc gaacattggg tcaccattga tccttgacac acttagaaac accacagaca 300
gcaaggaggc cgtgtatgag ataatgaaga agcaggtgat tgagatggcc cggcaaacaat 360
tccggccaga attcttgaac aggatagatg agtacattgt gttccaacca ctggat 416

<210> 19370
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F12

<400> 19370

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gtgagtaatg tagaagtcgc tatggtaggt atttccatac cgtcattagt ggatcattga 120
atTTTTTTgt aagaaggtta ttgcaatgcc ctttttccgg gcatgaataa gaaaaaggaa 180
atatgcttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca 240
aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaaaaaca taataaaata aaaaaaaaaa 300
gaaaaataaa aaaaataaaa atgaacgaag aattacaacg aaaaaaaaaa aaaaagggcc 360
cgccttttaa gaaactcaat ctttcttgcg ggggtttcca aattcaaaag cttttttaat 420
ggcccca 428

<210> 19371
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F3

<400> 19371

ccaagatcca ggacaaggag ggcattccac cggaccagca gcggctgac ttccgccccg 60
agcagctgga ggatggtcgc accttggtg actacaacat ccagaaggag agcaccctcc 120
acctggtgct ccgcctcagg ggtggtatgc agatttttgt gaagacattg actggcaaga 180
ccatcacctt ggaggtggag tcgtctgaca caatcgataa tgtcaaagcc aagatccagg 240

acaaggaggg cattccaccg gaccagcagc gcctgatctt tgctggcaag cagctggagg 300
atggccgtac cctcgccgac tacaacatcc agaaggagag caccctccac ctgggtgctcc 360
gcttgcgagg tggatgcag atctttgtga agacctgac tggcaagacc ataaccctg 419

<210> 19372

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-010-Q1-K1-F4

<400> 19372

ctcttcttca cctcactaac accagctagc aactctttct ctcttgcaat aatggccgct 60
cgctcctcct cctcccagcc gcagctggtc gcggcgggcg cggtcctggc agcggcgctg 120
ctgctgctgg cggcgggggc cgggacggcg tcggcgggcg tgagctgcgg cgaggtgacg 180
tcgtcggtgg cgccgtgcct cgggtacgcg atgggcagcg cggcgtcgcc ctccgcggcg 240
tgctgcagcg ggggtgcgctc gctcaacagc cgcgcgctgt cggcgggcga ccggcaggcc 300
acctgcaact gcctcaagag catgacgggc cggctcggcg gcggcgtcag catggccaac 360
gccgncaaca tccccggcaa gtg 383

<210> 19373

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F5

<400> 19373

cggatatagag ctgcctgcaa tccgccgctg agaaggagg atcggaagcg acgatgaggt 60
cgtttgctgg tggctttctg tcggcggtcg tggcctggct ggagctggcg ggcaccgcgc 120
agggcgggcaa cttctaccag gacacagaga tgacctgggg cgatggccgc ggcaaggtag 180
tggaaggcgg gcgcgggctg gacctgacgc tggaccgcac gttcgggtcc gggttccagt 240
ccaagagcga gtacctgttc ggcaagatcg acatgcatat caagctgggtg ccaggcaact 300
ccgtggcacg gtcaccacct tctacctgtc gtcccagggc gacgcgcacg acgagatcga 360
cttcaggttc ctgggcaacg tgagcgggtga gccctacag ctgcacacca acgtgttcac 420

gcgc

424

<210> 19374
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F6

<400> 19374

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aaccatttaa cgttccctgt tttttaattg gaactcgctg cgattggcat ctggcagttg 120
gttgggaaaa aaaaaaacia taaaaaaaag aaaaaaaaaa taaa 164

<210> 19375
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F7

<400> 19375

ggcggatcca gaccggcccc ggctgcctctg tttctcctcg ctgcgtccgg gatctgcgcc 60
cagttcaccg cagtgcctagc tggatgatccc caaacatcca acgatgataa gaaggctgaa 120
gctcagccaa agggccatac cggcaaaaaca gttttgttcg tctccttagg agtgggggct 180
gtcattctgg tgctatttgt tattttcaag tattggcaga agaagaaaag gcaggaacag 240
catgcacgtc tgctaaagct atttgaagag gatgacgaca ttgaagttga actaggactt 300
ccagattgaa taatcttaat tgtacagcaa gattatctcg gctgacaggg ttctgctggc 360
ttgccttcaa agcatattca tgttaatgta aagaat 396

<210> 19376
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F8

<400> 19376

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[illegible][illegible][illegible][illegible][illegible]

tgttagaaca acgcaggcct cccagacagc ggtgaagagc ccttcgtctc taagcttctt 240
 cagccaagtt acgaagggtc caagcctgaa gacctccaag aaactggatg tctccgccat 300
 ggctgtatac aaggtgaagc ttgtcgggcc tgaaagtga gagcacgagt ttgatgctcc 360
 agacgacgcc tacatccttg acgcagccga gactggccgt gtgggagtgc cataactcgt 419

<210> 19379
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-010-Q1-K1-G11
 <400> 19379

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 ctcagcctca aaggcctcac ctacgcttac tccgaggaga acctcgacga caagagcgag 120
 cttctcctca gtcaccaacc cgtgctcaag aaggtgcccg tgctcatcca ccacggcaag 180
 cccgtctgcg agtcccagat catcgtgcag tacgtcgacg aggccttccc cgccgccgca 240
 cctaatttcc ttccatccga cccctacgac cgcgccattg ctcgcttctg ggcctcctac 300
 gtcgacgaca agttctacag cgcgtggata cccgtgttca ggggcaggac ggcggaggag 360
 atggcggagg cggcgaggca ngccgtcgcg gcgctggaga cgctggagca ggcgttcagg 420
 gagtgc 427

<210> 19380
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-G2
 <400> 19380

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 ccacctccgt tcccgctggg aagccccagc agtccgtcgc ctcgccaag cccccacca 120
 cggcgggtggc ctccgtggcg acaactgtgc cgatgcgcag tgcagcgacg gtgacgccag 180
 ccgtggccac aacaacgagc ctacgctgtg ctctgcacct gccggagctg ccgtcgcaag 240

tgaaggacaa gatcctgagc ctggagctga tgggctgga ctatgggagc gcgctggagc 300
 agaaccggc gctccgcgac gggcgccgg agtccatcca cgcggtggtg tcgttcctcc 360
 agtcccgcg gctccagttc aaggacctgg gccgctctt cggcatgtgc ccg 413

<210> 19381

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G3

<400> 19381

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 catgacgtct cgcgcaatga aggggatgct gactggccca gtcacaatcc tcaactggtc 120
 ctctgtccgg aatgaccagc cgaggtttga gacttgctac cagatcgctc ttgcgatcaa 180
 gaaggaagtc gaggatcttg aggctgggtg tattcaggtt atccaaatcg acgaggctgc 240
 actgagagaa gggctgccgc tccgcaaggc tgagcatgca ttctacttgg actgggctgt 300
 ccactccttc agaattacca actgcgagat ccaggacacc acccagatcc acaccacat 360
 gtgctactcc aacttcaacg acatcatcca ctcgatcatc gacatgga 408

<210> 19382

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G4

<400> 19382

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 atcgaccggg cttgatctgc ctctgccgct ggcggcagct cggctgccca tacaagtgtc 120
 actgcggatg gtaagtcaga gcggtcacg ctcaagacca cggacatgga aacgggtgtac 180
 gagctcgggg gaaagatgat tgacgtctt gggaaggaga aagtgcagag cggggatgtg 240
 attgcgcttg acaaggccta cggaaggct accaagctcg gacgtccat tgggaggtcg 300
 cgggattatg atgctgttg cccgcacacc aaatttgtca agtgtcctga tggcgagctc 360
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aggacac

427

<210> 19383
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F1

<400> 19383

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ggcgtcacac gtgcgctcct ctgcgccatc ctccacacgt gcgctcaaac cgagcttgct 120
cgcggaaccgc accctgtctg gctgtctgca cgcattctca ccgtccgatc cccagccgat 180
ggcggcggag accgcggcgg acgaccacga tctccggcca cccctggcgg atggcgccgc 240
tgctgccggc gtgggcgacg cctccttggc ggcggcggcg ggcgcggcag aggcgctgat 300
gagcgcgacg tcggagcagc tcacgctggg gtatcagggc gacgtctacg tcttcgaccc 360
cgccccgcc ca 372

<210> 19384
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-D12

<400> 19384

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actcgacgga gctgttcccc aagatcttcc ccgagcagta caagagcatc gagaccgtcg 180
agggcgacgg caagtcggcc ggcaccgtcc gcctcctcaa gtacaccgag gcggtgccga 240
tgctgacgtt cgccaaggag aagcttgaga cggcggacga cgagaacaag gtggtgtcgt 300
acagcgtggg ggacggcgag ctggcggaact tctacaagaa cttcaagatc acgctgaagg 360
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aca 423

<210> 19385
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-D2
 <400> 19385
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 tctcaagatc cacgctcata tagagatgaa atgcttacag tttaatagat tgctccatat 120
 taagcaagct atgaacaaag ctgaagctcc tgacaatgat aactgtcctg tgaagattaa 180
 gctacttgct tctacacttt atgtttatac cacacatacc cttgacaatg atcaaggcat 240
 ttcactcctc actactgcac tcaatgcttg tacagcatag attgaaaagt acaaaggaaa 300
 gttagtactg aatgaaccac c 321

<210> 19386
 <211> 177
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-D5
 <400> 19386
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 tatctcagat gccgaatggc ttgtgattct tggacctata tccctgactc ttctgcttat 120
 tttcgttagt cgaatgccac ttctcaagtc atctgctgat tagcgctcat aacgatt 177

<210> 19387
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-010-Q1-K1-D6
 <400> 19387
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 aacctgattc cgttccctcg cctgcacttc tttatggctg gctttgcgcc actcacctcg 120
 cgtggctcgc agcagtaccg tgctctcact gtcctgagc taaccagca gatgtgggat 180

gccaagaaca tgatgtgtgc tgctgacccg cgtcatggcc gctatctcac agcatctgcc 240
atgttccgtg gaaagatgag caccaaggag gtggacgagc aaatgatcaa tgtccagaac 300
aagaactcgt cctacttcgt ggagtggatc cccaacaatg tgaagtccag tgttttgtgat 360
atccccccac gcggcctctc catggcctnc accttcattg gcaattccac ctncatccag 420
gagatgttcc gccgtgtgag 440

<210> 19388
<211> 242
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-D7

<400> 19388

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agataagacc gcgggacatc acgatgatgc cttcagcacc ttcttcagcc agactggtgc 120
tggaagcac gttccccgtg caatcttcgt tgatctagaa cccactgtga tcgatgaggt 180
gcgcactggc acgtaccgnc agctcttcca ccctgagcag ctcacagtg gcaaggagga 240
tg 242

<210> 19389
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-E11

<400> 19389

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atgagagacc ttgccaaaga attagtgtt ggaggggaag aatgacctag aactgaagat 120
ggatgagctg atgtgaaaaa tgaggggaag aatgacctag aactgaagat ggaggagctc 180
aggtgaaaaa tgaacttgtt cattgtgtgt tttctgacct ttttttgaa ttgtattaaa 240
atatactgta atgaattggt gtaagaatat gttggaagta gcaaagaacc tgatgccttt 300
tgcaatgaga atgtctttct ggcaatttat cctg 334

<210> 19390
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-E2

 <400> 19390

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 ggatgaagag caggagcagc actctgttgg tgatcctagt tctccaggcc cttctgtctt 120
 ctgcggctgt ggccaaagga cctgcagggc cgaagaagca gtgctggtgc ggcgagtgca 180
 ccagctggtc gggcgtgtgg acctgcgacg acctcctcac caagtgcgcc gccacctgca 240
 agaactgcgt ccccgctctcc acggacaagg gcgccaccaa gtacagatgc cgcgacttcc 300
 tccccgaaaa ctgcggctgc aagatccact agagactcat ccaatcaacc atggccacag 360
 ccgatggacc cttcttccat atgcatgctc 390

<210> 19391
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-E4

 <400> 19391

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 gttggatgac tctgatgatg ctaccacttc ggcacttacc aaggaggagg tggagaaatg 120
 gcagcgagag ggtgtgcgca tagtataccg gcaccgggtg atccgggatg gctacaaggc 180
 tggaaacctg aaatcagcca tgaactgcag ttacgtgaaa gactatgagt tcgttgcat 240
 cttcgatgct gatttccaac cacaggcgga cttcctgaag cgcaccgtgc cccatttcaa 300
 gggaaaggat gacgtcgggt tggttcaggc gagatggtcg ttcgtaaaca aggatgagaa 360
 cttgctgacc aggcttcaga acataaatct 390

<210> 19392
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-E5

<400> 19392

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gccaaagtga caacttctgt tattcgtttt ctaggactgt tcttaçccaa gattttctag 120
gttcttgcca agattttcta ggttaattat cctgatcaca atcgttttac caaacgtcta 180
tcacaaatac catctttctc atctgtgaaa tgaaggaaat actaagcttc tccatgacca 240
aagtccgctt cctataatct cacgtgagcc tggcacgtag taagcgctat agacatttta 300
agtgtcacac gaagcttgaa aaaaatgaga cgtgtgacat tttagctatg actagtattt 360
ttttctacaa tggaatcggt caagatacac tgctagaaac cgggtttccc gtcgtgccta 420
aaagtctcgg tagcacgtgt ctg 443

<210> 19393

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-010-Q1-K1-E7

<400> 19393

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agtgtacatg tcgtgcacgg tcacacgtgc gtcctcttgg tccatcctcc acacgtgcgc 120
tcaaaccgag cttgtccgcg gaccgcaccc tgtctggctg tctgcacgca tctccaccgt 180
ccgatcccca gccgatggcg gcggagaccg cggcggacga ccacgatctc cgccaccccc 240
tggcgggatgg cgccgctgct gccggcggtg gcgacgcctc cttggcggcg gcggcgggcg 300
cggcagaggc gctgatgagc gcgacgtcgg agcagctcac gctggtgtat cagggcgacg 360
tctacgtctt cgaccccgtc ccgccccaaa aggttcaggc tggtcttttg gtacttggag 420
ggtacgagat tccgncgtgt ttggtaaaca tggct 455

<210> 19394

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-E8

<400> 19394

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gatatactgg taaaacaatt aggggaaaat gactcacgga ctgaagactc aaaaaattgg 120
ttgaatacat ttaagcttcg agaagagcag gtcaacgccc agaagcagaa gggccaggaa 180
gctaattgcat ccgataacgc tgtaaattc ttgaaggcaa accctgcagt ttacaagca 240
atgaaggctg ctgcgatcca atcaggtggt gtgtcagcaa atgtcaacag gtcgctcaat 300
gctgcagtcg ttggagaagg tgtaccacga ctgagaggag tggatgagcg agctgctcga 360
gcgactgcag aagcccgaa gaaagctgct gcaagaggcc ttaatgtccg taatggccct 420
gtggcaaacc atgcgtctga 440

<210> 19395

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-D11

<400> 19395

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ccaggccgga gaggaggatg gtgggacgag gagcggcgac ggccctcgtg tgggcggcgg 120
tggtggcgggt cgcgacggtg gtgtcgcggg cgcagcagct gcaggtgggg ttctacgaca 180
cgctgtgccc ggcggcggag atcatcgtgc aggaggaggt gagcaaggcg gcgtccggca 240
acccggcgt cgccgcgggc ctctgcgcc tccacttcca cgactgcttc gtcaggggggt 300
gcgacgcgtc ggtgctgctg gactcgtcgg cgggcaacca ggcggagaag gacgcggcgc 360
ccaacgccag cctgcgcggg ttcgaggtca tcgacagcgc caagacgcgg ctggagcagg 420
cctgc 425

<210> 19396

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-010-Q1-K1-B7

<400> 19396

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 tccacttttg agatgcaact ggccaagacc acatctttgc tacatctaac cctgtaccga 120
 caaaccaaag aggagatcaa ttatttcattg tgtcctctca aggagtgagt gccattcca 180
 gtgtttctcat caactacggt ggttacaacc ctcaaatta tctcagcaa aatgcccgtc 240
 ctggtcatgg acagccaatt ctccatcagc gatataatca ggcaacttcc agtccaatgc 300
 ggccaatggg aagccatcac aatgggcagc ctgcgtggcc tagtagtttt ggcattggcg 360
 atggagtgcc ctggggagga acaagagggc actcatttna cgacaaggaa ggattatggg 420
 agcatc 426

<210> 19397
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-B9
 <400> 19397

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 aacaagtctg actgggacca cccgatgcac ctgcagccga cgagcccgac ggccgtgaag 120
 caggtgagct gcgtgtggga cgcgtacgag gccaccaagg gcgcccacgg gctgtgcatc 180
 ctgaccgagt gggacgagtt caagaccctg gactaccaga agatcttcga caacatgcag 240
 aagcccgct tcttcttcga cggccgcaac atcgtcgact ccgagaagct gagggagatc 300
 ggcttcacg tctactccat cggcaagccg ctgcagcct ggctcaagga catgcccgcg 360
 gtcgcctaatt cccaccccc caccatgg attggattcc gggaaggaag aggagagaag 420
 ct 422

<210> 19398
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-C1
 <400> 19398

cctaccacac cctatcgcat taatacactg cactgtcagc taaactaac gcagggcttc 60

atctaacgat gcataccgcc aataccacat ctttcttaca tctaactg accaccacta 120
cctcaacaac gactaacaaa cctacggcta tttctcgagt caaagatcat tctcaatctc 180
taaacaccta cgtcccttac atccctcaaa atcacctca ccacaaagca cgcgattctc 240
atcgacatcc aattcatcat cagcaatgta ctcaaccaac tcaacatcac acgcaaccaa 300
tcccaatcca tcacaa 316

<210> 19399
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C10

<400> 19399
cggacgcgtg gggttttgtg gtacgacata tcaagtttgc tgagaactac cgtatttagt 60
ctcgaagcca ttttgtgaaa gggatggagg ttgcactttt gttggtgatc ttcctagcgt 120
atgggtttta caatggtgga gcagttggct atattttact ctctataagc agttggatta 180
tggcattgtc ttggcttttt gctccctatt tatttaaccc atctggattt gaatggcaga 240
agattgttga ggatttcaga gactggacaa attggctgtt ttatcgaggt ggtattgggtg 300
ttaaaggaga agaaagctgg gaagcttggg gggaagaaga actgcaacat atttacagca 360
ttcgagggag gatactggaa accatattaa gcctgaggtt tttcattttc caa 413

<210> 19400
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C11

<400> 19400
cggagggcct ccattgtgat gcgatgcgaa ggctgtggac agaaaatagg aaaacgtgtg 60
gggatttgtc tcgtctgtcc gctccgtccc cctacattt ctttctgtgt tagtacataa 120
ttctagattt acagaaaaga caaagtttac tcttttctgg atcatatgtt ttgtgctact 180
tattgctgct ctggccgcat tgggccagca tgcagttatt cacgggttca acctgacaag 240
cgctggctgc agcagcgagg tgttttagg tttcgcggtg attcgtctac ccaaactctg 300

aaccgtactg atactgaaga ccgtactgat actgaaggca ttatccggcg tgaactgcta 360
attcaaacat tattacacga atgcataagg ctgagcacgg cttttgggct tgaact 416

<210> 19401
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C12

<400> 19401

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tgtcggcctc tgccgctggc ggcagctcgg ctgccctac aggtgctact gcggttgta 120
agtcggggcg gctcacgctg aagaccacgg acatggaaac ggtgtacgag ctcgggggaa 180
agatgattga ggctcttggg aaggagaagg tgcagagcgg ggatgtgatt gcgcttgaca 240
aggcctccgg gaaggtcacc aagctcggac gctccattgg gaggtcgcgg gattatgatg 300
ctgttggccc gcacaccaag tttgtcaagt gtctgatgg cgaactccag aagcgcaagg 360
agatcgtgca ctgtgttacc ttacatgaga ttgatgtcat caatagcaag acacaagggtt 420
t 421

<210> 19402
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C2

<400> 19402

gatgatcaag ggctgctgtg tgggtccaaa gaagaggggtg gtgaccctcc gccagtcgct 60
ggtgaagcag acttcccggc tggcgctgga ggagatcaag ctcaagttca tcgacacatc 120
gtccaaattht gggcacggtc gcttccagac taccgatgag aagcagaggt tctttggcaa 180
gctcaaggcg taagggtgctg cgggtgcagcg aagtcccatt tctcaaaatc atcaaactgt 240
gatacttttg tttgtaacct tgctgtacca agttttgtag ccatgggtccg gtcgtctatg 300
gattgttcca tgcttcagaa ctgcactgtc tatgttttgt gctattttgg ttgtttaatg 360
gcccaatcat tgcatataga ttctaattgt catggcgtht gatgatcaat ataactattht 420

atact

425

<210> 19403
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-C3

<400> 19403

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atgtggtgaa atatttggtg acttacagaa gcatagctat gttcagaaaa agcctggagg 120
agcaactgaa caacaggagt tgacatattc tagtcttcag gaagctatct ctgtgccttg 180
gaatagtcta ccgaagaaga cggcaaaatt atactttgct atgagagtac tggaggatta 240
tgaattatct gaagggcgca gccctggcga aacaacactt tctgacatag atgcagttct 300
ggctcgaagg aaggatatgt gtgataaaat gtctttgaat gagtctcgta ttcctactac 360
tctcgtggaa cgactgctag cagctggaaa gaaggagcat cctnctgtat gtgctatcct 420
tggtggtatt cttggtcagg ag 442

<210> 19404
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-C5

<400> 19404

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ttgaaatatt tgttgactta cagaagcata gctatgttca gaaaaagcct ggaggagcaa 120
ctgaacaaca ggagttgaca tattctagtc ttcaggaagc tatctctgtg ccttgggaata 180
gtctaccgaa gaagacggca aaattatact ttgctatgag agtactggag gattatgaat 240
tatctgaagg gcgcagacct ggctaaacaa cactttctga catagatgca gttctggctc 300
taaggaagga tatgtgtgat aaaatgtctt tgaatgagtc tcgtattcct actactctcg 360
tggaaacgact gctatcagct tgaaagacag agcattcttc tgtatgtgct atccttggtg 420

gta

423

<210> 19405
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-C6

<400> 19405

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tgtggattag gtggggaatg cacactttca cttgtttctc ttaaaaatgt caaaccagga 120
caacatgata cacatctgca ttctgctgct gttecgcatcc agaacaagtt tcgcgggatgg 180
aagggaagaa aggaatttat gatcattcgc cagagaattg tcaagctaca ggctcatgta 240
cgaggacatc aagtgaggaa gaactatcgg aaggtagtct ggtcagtcgg tatcgtcgag 300
aaagtcatac tgagatggag gagaaagagg cctgngttac gcgggtttcg gccccagaaa 360
caactagaag gtccatcgca natccaacct gcaaaggctg aagacgaata cgatttcttg 420
cacgacggca g 431

<210> 19406
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C7

<400> 19406

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ctcaggcccc atgggaagac ccaggtgaca gtggagtacc gcaacgaggg tggcgccatg 120
gttcccatcc gtgtgcacac agtcctcatc tctaccagc acgacgagac agtcaccaac 180
gacgagattg ctgctgacct gaaggagcac gtcatcaagc cagtcatccc cgagcagtac 240
ctcgacgaga agacaatctt ccacctcaac ccgctctggcc gcttcgtcat cggcggacct 300
cacggcgacg ccggcctcac tggccggaag atcatcatcg acacctacgg tggctgggga 360
gcccacggcg gtggcgcctt ctccggcaag gacccgacca aggtggac 408

<210> 19407
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C8

<400> 19407

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tgacaccccc gaggttaagg attctctggt taagaacata aggaggagga tgacaccaca 120
gcctctcaag atccgtgctg atatagagat gaaatgcttc cagtttgatg gagtgctcca 180
tattaagcaa gctatgaaga aagctgaagc tgccgggcaat gataactgtc ctgtgaagat 240
taagctagtt gctcctccac tttatgtttt gaccacacag acccttgaca aggatcaagg 300
catttcagtt ctactactg cagtcaaggc ttgtacagca gagattgaaa agtacaaaagg 360
aaagttagta gtgaaggaac caccaagagc tgtagtgag cggaagaca agctattcct 420
cgaccagatt gattccctaa tgg 443

<210> 19408
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C9

<400> 19408

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accatggcta cccgtatcca gtttgagaac aactgtgaaa ttggtgtttt ctccaagctg 180
acaaatgctt actgtctggt agcgattgga gggcagaga acttctacag tgcctttgag 240
gctgagcttg cagatgccat ccctgtggtc aagacctcta ttggtggcac tagaataata 300
ggccgacttt gtgttggaac caagaatgga cttctattgc cacatactac aaccgaccaa 360
gagcttcagc atctgaggaa ttgcttgctt gatcaagtgg tggttcaccg cattgatgag 420
agggtatctg cctttggca 439

<210> 19409

<211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-D1

 <400> 19409

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 tatgtgttgt cgtgggtgtcg ctacgatagt gagataataa tgaagctttg ggactggggac 120
 aaaggatggg agtgcgcacg cacattccga agtggaggca ttaatgtaga tcatatcgct 180
 ttcgatccaa aggagaccaa ccgctttgtt gctaccgatt gcttggatgg caaagtgatg 240
 atttggagcc tcgactctcc cgaacctgaa tatcatctgc ctaagacgga ttttaagggg 300
 atcatgttcc tggaattctt cacacgttat ggtcggcagt gtttgattat tgctcatgaa 360
 gatcataaag cacacgtatg ggacttttcg ttgcgcaaat ttgtttctga gaagcgaaaa 420
 ttattatctc 430

<210> 19410
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-D10

 <400> 19410

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 acgggcacga actactccgc agggacgagg attgaagtca actgcaagag ttcccttgag 120
 agcattggcg ggatactcga gcaggcggcg agcttttcgc aaactgaccc attgaggcag 180
 tatcaccoga tcagctttgt cgcgaagggg gtggccagga acttcctcct tgagccattg 240
 tacagtttga gggacgaatt ctacacggtt tacttcaacg tcagggtctg agtcctgacg 300
 cttacacttg cagtagaagt aatacagaat aaataatgtg cgcgaccttt ttcttctcat 360
 acactgtagc ttagaacagc caatgaagaa gcaattgggt tgggtgaact tgttatgca 419

<210> 19411
 <211> 472
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-B6

<400> 19411

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cggcgctctcc gagcaacagc tcctccgacg aagggtccgg ctccgggttc gggtcggacg 120
acgagatgtc ctcgctctcc ccgacgccgg tgggtggcgcc gccggtggcg gacatgggac 180
agctggattt cagcgagggt ccgtgggacg aggacgagag cttcgtgctc cgcaagtacc 240
cgtcctacga gatcgactgg gacgcgctgc tctccaacta gtcgcccttc gccgacagat 300
gtgctgttgt agttcagtag tggcagtgtc tctggccgcc gcagatgagg ttttaggcaa 360
tctgcaggcc gccggcccat gtgtattaag taggttttgc tcagttgttg gccctggact 420
tcgccggcgt ttttgtgacc ggcgtccccg agtgcactgc attggtgtac tg 472

<210> 19412

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-A12

<400> 19412

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ttccaaaagt tactcttaag aattcctaca acattatgaa tactttctaaa tcacaaatct 120
tccttccaag acagtacatt atatctacaa agttacatct atatcactga atccaaacat 180
tcctatgcaa atttttaatc taataatgat taaccctcct aaacctttag atatctctta 240
ccttaac 247

<210> 19413

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-A3

<400> 19413

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ctcggtcgag ctgtccggag gaccaaagtg ggcagtgtt cttgggaggc tagacagcaa 120

gaaggccgac ttcaagagcg cggagaacct gccgtcgccg ttcgacaacc tgacggtgct 180
 ggagcagaag ttcgcgggccg tgggcctcca caccgtggac ctggtggccc tctcgggggc 240
 tcacacgttc gggcggttcc agtgccagtt cgtcacgggg cggctgtaca acttcagcgg 300
 cacgaaccgg ccggacccca cgctcaactc cggctaccgg gcgttcctgg cccagaggtg 360
 cccccagAAC ggcagcccct cggccctcaa cgacctggac cccacgacgc cgaacctgtt 420
 cgacaaccac tactaca 437

<210> 19414
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-A5

<400> 19414
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 acaacacaaa ggctcgcagg gcggtctaaag agagaaaggc gcgcatacaa gagctccgga 120
 aacattacca tacccttcga caacctgact gtactgcac ataactacgc ggccgtgggc 180
 cttcacaccg tggacctagt ggccctctcg gaggtcaca ctttcgagcg ggtccagtga 240
 cagttcgtca cggagcgggt gtacaacttc agcgggtacta accggccgga cccactctc 300
 aactacggct accgggcggt cctggcccat atgtgcccc 340

<210> 19415
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-A6

<400> 19415
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 cttgtgggtt cccaagatgt cttctccaag caagcgccgg gagatggacc tcatgaagct 120
 gatgatgagc gactacaagg tggatatggt gaacgatggg atgcaggagt tctttgttga 180
 atttcgtggg cctaacgaaa gcatttatca aggaggtata tggaggggta gagtagaact 240
 gccagatgcy tatecttaca aatccccatc gattgggttc atcaataaga tatatcacc 300

aaatgtcgat gaaatgtctg gttcagtctg tttggatgtc atcaaccaga catggagccc 360
aatgtttgat cttgtcaatg tgttcgaggt cttccttcca caacttc 407

<210> 19416
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-A8

<400> 19416

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caagacgagc agcaaagcaa acagtatttg tcccgcgggc gcctcttcgt cccgcaaggt 120
cgccccacct agatccggcc acgccgcagc ttcccccttt cgcgcgcagc gatggtgtac 180
gtggattcct gggacgagtt cgtggagcgg tccgtgcagc tcttcgcgc gcacccaac 240
accacccgct acgtgatgaa gtatcggcac tgcgagggga agctcgtgct caaggtcact 300
gatgaccgcg agtgcttgaa attcaagaca gatcaagctc aggacgcaaa gaagatggag 360
aagctcaaca acatcttttt tgctctgatg actcgtgggc ctgatgctga tatcagtg 418

<210> 19417
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-A9

<400> 19417

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tgccttcacc gacgtcctat cttctcctga atccctcaa accctctcc ttccgccgac 120
tctcggcccc gcgcctgagc cggtttcatg tctcctgcga cagccacgg ggccggcgga 180
ggagtggcgg cgggaggcgc gaggtcatcc ccgccgtgc cagcaaggcc aagaaacaga 240
tcgtattctt cgatgccgcc ccgccggtgt cccaggaggg cgggggcgcc gtggagaagg 300
cggggagcga gaagcttacc caggtgggca gcggcaacgc agcgtggcg ttgttgagga 360
gggcaaccaa gaggacgctc tcggtgctgt ccaacctncc gctcgccatc tccgagatgt 420
tc 422

<210> 19418
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-B1

 <400> 19418

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 cgtttgatct tcgctggcaa gcaggtttag gatggccgca cccttgcgga ttacaacatc 120
 cagaaggaga gcacctaca cctggtgctc cgtctcaggg gtggcatgca tatctttgtg 180
 aagacactta ctggctagac aatcactctt gaagtggaga cctcggatac catttacaaa 240
 gtcaaggcta atatccag 258

<210> 19419
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-010-Q1-K1-B10

 <400> 19419

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 gcggggaagg aaggaaggat agagagagag agagaggagc gatggcgctc ggttaccgcg 120
 cggaggagga gtacgactac ctattcaagg tgggtgctgat cggggacagc ggcgtgggga 180
 agtcgaacct gctgtcgcg ttcgccaggg acgagttcag cctcgagacc aggtccacca 240
 tcggcgtcga gttcgccacc aagaccgtcc aggtcgacga caagctcgtc aaggcacaga 300
 tctgggacac cgcggggcaa gagaggtacg cccttctttg ctgttgtagc ctatgcaggt 360
 tgcagcagat gcagttctag gatctgtgca ccatttttca gagcttcctg gttagtaagg 420
 atttaa 426

<210> 19420
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-B11

<400> 19420

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tggccgctcg ctctctctcc tcccagccgc agctggctcg ggcgggcgcg gtcctggcag 120
cggcgctgct gctgctggcg gcggggggcg ggacggcgctc ggcgggcggtg agctgcggcg 180
aggtgacgtc gtcggtggcg ccgtgcctcg ggtacgcgat gggcagcgcg gcgtcgccct 240
ccgcggcggtg ctgcagcggg gtgcgctcgc tcaacagccg cgcgtcgtcg gcggcggacc 300
ggcaggccac ctgcaactgc ctcaagagca tgacggggcg gctcggcggc ggctcagca 360
tggccaacgc cgncaacatc cccggcaagt gcggcgtctc cgtcggcggtg cccatcagcc 420

<210> 19421
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-B12

<400> 19421

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aaaatatcca ccaagtgcgt ttattgcaca atagacattt acagtggctc tttataaatg 120
cttatgcaga agatgcttta tcttttcaaa aggctactgt tgagaatacc atgtataatg 180
tttgaggagaa tactgtaaac ctgcgggatt ctggtaatat gaaaagaata atggtgcaac 240
actttcaaca agaactcagg ctttacaaca ttctgaaaga gcagattgct taccttgaac 300
aatggccaac gctagaaagg gagaatagta tctctttact aggggcaact gaggctctga 360
aagcaagcac cctgcgcctg ccagttacat tgggagcaaa ggctaacaca at 412

<210> 19422
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-B2

<400> 19422

gaattaccgg ctcaccatca attcacgtga atctaaacca caaaaaagaa gctttatgaa 60

cataaccaat taccaatgac actagctgat actagtagta ttacgcatgc atgcagtagc 120
tatgtgtgtc gtcgtagtcg tagtatagct gccagtgtcc ggacgcggac ggatcaatgg 180
cagattagca gctagccagc tgggattgag atggatggat ggatggatgg aggtcgaggc 240
acgccacgcg cagggcctag ttcctgttga ccatggcgag gatggtgag atgtctcgg 300
agctcaacac cgacatcgac gcctacgtct tcatcgactc caactacaac ctaatcagct 360
t 361

<210> 19423
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-B3

<400> 19423

ggcttctcct cccccaccgg ttcgtgttca ggttctgggt cgtgggcgag agggaagaga 60
tggcggcgtc ggacgttgag taccgttgct tcgttggcgg cctcgcttg gccaccgacg 120
accactccct caacaacgcc ttcagcacct acggcgaggt cctcgagtcg aagatcatcc 180
tggatcgga gacgcagagg tcccgcggct tcggcttcgt caccttctcc acggaggacg 240
cgatgcgcag cgccatcgag ggcatgaacg gcaaggagct cgacggccgc aacatcaccg 300
ttaacgaggc ccagtcccgc ggcgccgtg gaggcggcgg tggcggatac ggtggcgggc 360
gccgtgatgg aggcggctac ggcggtggcg gtggaggcta ccgcggtggt cgtggaggct 420
acggcggcgg tggg 434

<210> 19424
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-B4

<400> 19424

ctgaaaacag aaacaagaac tatagccagg gccgatgttg cagaagtttg catacaggca 60
ttgctattcg aagagtcaaa gtttaaggca tttgatctgg catcaaaacc agaaggtgaa 120
gggacgcaa ctacagactt tgactcttcg aatatcaatc acccgctaaa caagtttaga 180

cggcgcgtcc ccggcggtccg gtggcctccc cggcacctcg tcgggcggca gcagcattcc 300
agcgttcagc atgccgggca gcggcagcag cctccccggc gggtcgttct tgcccggcag 360
cagcggcagc atcggcagca tgcccctctt cagcggcggc tccccggcct tcagcggctt 420
cggcggcatg cccggatccc ccg 443

<210> 19427

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-G6

<400> 19427

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cacgtggggg ccgggcgacg gcgcctttgc gcgcgggcag tggccgaagc ttacgccgga 120
cgcgcccgtt gccgggtccgt caccgtttgc agcccgaacc gagaagccgg agagcccagc 180
ccttgcgccg gagcgccagc agcgctcgca ctcgatccag gtggccgagc aacgctcgca 240
gtcgcgccat ggggggagcg atccaaccgt ggtcgactag ccgtgccgtc gcgcacacgt 300
ctgtgctagc cgagccaccg aaccgcgaac gaggctgagg cctgccgtgc accacggccg 360
accgagccga ggctgatgac ggacgagcac gggccggtag gcggacgtag agcccgtttg 420
ccc 423

<210> 19428

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-G7

<400> 19428

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tcaacagcat tgcccccgag gagcctaaag tggctgtgcc agagtacggt gagacggctg 120
atatccagga caaggaagtt agtatggaac agctctgctc cataagcacc tatgatcagt 180
ggacgccact ctctgtttct ggccagcttc ccaaaccacg ctataagcat ggagctgtgg 240
tgattcagca gaagatgtat gtctttggtg gaaaccacaa tggccgttac cttggcgaca 300

ttcaggtttt ggacttcaaa actttgtcat ggtcaaagct ggaagctaaa tcacaagcag 360
aaccatcaga atcagctgga gcagttccgt tttctgcatg tgctggccat tcagtgattc 420
aatggggaa 429

<210> 19429
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-009-Q1-K1-G8
<400> 19429

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agccgagagg gccaatgagg caaggcatga gctccccttc cgccgccgcg gcgctcgtgc 120
tcctcctggc cctgctcgcc ggaggccagt gccgagaggc ccagctcgac gccgcggacg 180
ccggcaccgg cacggagAAC tacaccgcca gcgacgccgc cgtgtactgg ggcccctggc 240
agagggcccg ggccacctgg tacggccagc ccaacggcgc cggccccgac gacaacggtg 300
gcgcgtgcgg attcaagcac accaaccagt accccttcat gtccatgggc tcctgcggca 360
accagccatt gttcaaggac ggcaagggtc gcggctcctg ctacaagatt cggtgc 416

<210> 19430
<211> 426
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-G9
<400> 19430

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aaggatcatt aaggagaccc tacgagtgaag agattaagga ttgcaacatt tggcttaagg 120
tattcgggtcc cgaaattctt ccattaaagg aattaccggc caacctacca aaacctgtta 180
aggttgaaaa acttggttgct tttgcactta atccaatgga tgaacagagg cagcttttgt 240
gtttggagaa tgagcgacta aaacaagcct tgggaagaca aatagaacaa tcaatgggta 300
aagcttaaac atcccaaaag gagggatatca gcctgagcaa agagaaggag ccattgatga 360

aggaaaagaga tgcttgattt caggaggctc atatgntgcg cattgaacta gtaaaagcca 420
gggagc 426

<210> 19431
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-H1

<400> 19431

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ccgatgccga cctcaacttg gtctgtctcg actgcggcaa gccatgccgc tcccagaccg 120
aggtggacct gcacaccaag cgcacggggc atacggagtt cgcggacaag accgcggagg 180
cagccaaacc catcgatctc gaggcgccgc ttaagccggc ctccgaggat gtcattggacg 240
tagacacgtc ggcttcggcg agtggggagc cacaagagat ggttggtccc gaggtgaaca 300
aggagatgct cacggacctt gagggcatgg gtttctcgac agcgcgcgcc accagggcgc 360
ttcacttctc cggtaatagc accattgaag gtgctattaa ctggctttct gagcaccaag 420
aggacatag 429

<210> 19432
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-H10

<400> 19432

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tctagactac tcggacaatt cagactatac tacgacgaca catagctcac cctctctctc 120
ccggtctcct ccggctccca gcccgtcgcc gaccgcaagc gcgcccactc tgaccacaac 180
aagccgtcat gcccaaatgc gcgctccgta cactgtccga ctgtacaaac gtaccggcgc 240
aacgcgtac acgaccaagg caccaatctc gtaaaagtaa ccaatgacca atcaccttac 300
cttcttaaag atgacctcat aacacacgac ggggtactcac accttcttct ctcgctccac 360
agcat 365

<210> 19433
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-H11

 <400> 19433

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 tggcaccaag catgaggcan gaactgcatt acttgcaaga aagtcacaaa atccattgca 120
 agatcatact tgtggctttc ttgcaagttg tgcagttggt gcctcaagct tgctgcctcc 180
 ctttgccaga gctatcggta aaacaggaag tactgtcagt ttccgagcta caaacaagct 240
 ataagtttag aaaaataatt tagaaatgta caacaaagtc tagtaatata ttgctaaaga 300
 taaatcaata ctcaataagt tcctcatgct ttggatttgg ggataacata cctgggtttat 360
 ttacatgcta atatttggac caacaaaaaa taccttagga acagccattt gagaaaaaaa 420
 caaagccttt tagtcctaag caag 444

<210> 19434
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-H4

 <400> 19434

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 ggcaaccacc attggcaacg ggcctttctt taaccgcctt gcaatgggcc ggcctcttgt 120
 ccgtgtggtc cgtcgtaacc taccgggctc gcgcccagca gcagcccagc cacaacgcct 180
 ccgagtcgtc gcaggacagg tccttgttgt cctacagcag tggctggctg cccgccaagg 240
 ccacctggta cggcgcgccc accggcgccg gccccgacga caacggtggt gcgtgcgggt 300
 tcaagggcac caaccagtac ccgttctcgt ccatgacgtc ctgtggcaa 349

<210> 19435
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-H5

<400> 19435

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cttatgccaa acgttgctaa ccttcaaaat gttggtgacc gtctgtctga cgaagaacta 120
tatgaagctg caaaaatctt ctatgcttac atctcacact gggctaagct agctgttacc 180
ataggtaagc tgtatcaagt tcacgggtgct gcgaatactg tctacatggc tatacagtgc 240
caaaacatgt aacgtgggtct gctgtgcttg tgttgacgcc gaggagtcc atcttgaca 300
gatttgctac ctcaatgtta ttattcatgt tgattacttg aaagaagtca gttagtacta 360
ccataataga ggacgcttca attaactcat tgctctcatg gatagtgggc ttgcacttg 419

<210> 19436

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-H6

<400> 19436

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caccgccaac aaccagggtca acgtctcttc gggcgctgcc gaggtcacca tcaacagcgc 120
gctcagcgcc gtcaagcccc tcgccgtcta ctccgtcgac aaggtgctcc tgccgctgga 180
gctgttcggg gccaaaggcgc ccgccgccgc gcccgccgcg tcccagggga agcccaagaa 240
gggcgggtcc tcggacgctc cctccgggtc ggccgggtcc gacgacgccg cgccacggg 300
cgccgccggc gccagggccg tcggctggag ctccgctggc ctccgcccg tccttggtg 360
cctgttgtga gagtgagacc gtgcgtcatt tctagggacg gaggacggac ggacgacaag 420
ctagttgaag at 432

<210> 19437

<211> 213

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-009-Q1-K1-H7

<400> 19437

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tacgcggacc cggatacggg agcggaagat caggatgaga ggtgggagag gctgctgccg 120
gagctgctct gcgacgtggt gggcgcgctc taggcgtccg gggcgagcg gtggccggcg 180
cggaagacg tagactcctg cgctgcctg tgc 213

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<210> 19438
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-H8

<400> 19438

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attaagcgt aatgcacgga ggagctctgc agtgccattt gaaccttctc aaacaaacga 60
ctgccattga aattgagaag acaagacgga atccaaggaa attaatagc actcctgctg 120
agtcagttcc tgatggccag ttaacagAAC ttgagaaggt taaacgtagc cttaggaagg 180
ttactaattc tgtggctgaa acctcgaagg cacctagtcc aaaaactgag attcctaacc 240
atcaagaggt ccaatgtgag agaccactaa gaagagcaaa acaggttcca attcatcttg 300
agaatcaaga gcctgataat gttaatctgt tggacaatgc aaagatggat attctggtac 360
ctgatatcca gcctgatgtg gaagttgctt cagatccagt caccatcact aatgaagaaa 420
atgttgatga ac 432

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<210> 19439
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-H9

<400> 19439

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ccttgggctt cccggcttct tccgcgcgca agcccgccgc cgacggaagg cgcgccacg 180
ccgaccacga caagccgnca tccccaaagg cgggggccgt gggctggccg ccggtccgcg 240

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cgtaccggcg caacgcgctg cgcgacgagg gcgccaggct cgtgaagggtg gccgtggacg 300
 gcgcgccgta cctgcggaag gtggacctcg cggcgcacga cgggtacgcc gncctgctcc 360
 gcgcgcttca cggcatgttc gccttctgcc tcggagccga cggnnngcggg cggatcggca 420

<210> 19440
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-A1

<400> 19440

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 agccatgggg aggtggccgt gctgcgagaa ggcgcacacg aacaagggcg cctggaccaa 120
 ggaggaggac cagcgcctga tcgcctacat cagggcgcac ggagagggga gctggcgctc 180
 gctgcccgaag gccgcgggac tcctccgctg cggcaagagc tgcaggctcc gctggatgaa 240
 ctacctccgc ccggacctca agcgcggcaa cttcaccggc tacgacgacg agctcatcat 300
 caagctccac gccctgctcg gaaacaagtg gtcgctcatc gcgtgacagc tgcccgcccg 360
 gacagacaac gagatcaaga actactggaa cacgcacatt aagcgcaag 409

<210> 19441
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-A10

<400> 19441

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 aatttggagc tcgtgttgcc ttcgaagtct atccgtgaga tatatatata tatttacata 120
 catatatgta tgtgtgtggg tgccttgctg ggcttggcgt gatgatgtca taaataaaga 180
 ggggtgggtgt gcttgcggta ttcattgatg gccatggatc tgagcacatg acgttggatg 240
 ctttcttaag gctctcgtgg atcttctata tttggaagaa gctgtaaaat aatatatcgc 300
 catctagtgt tggcgttggc ttgtatgtac tttgtacctg ctttattatt ttgtgcaata 360
 tcgagtaacc taatgt 376

<210> 19442
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-G5

<400> 19442

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 cgagtaccag accgaggagt gcatgtacaa cgccgtgcgc cgcttccgca aggtgcgcta 120
 cgacacgctg cgccctgccga acaaggctcgt ggcgcggttag gccgactgct ccgtcaagtt 180
 cggccagagc tagggctcct cctacctctt ataccggac atctacacat acaggaggat 240
 ctccgtgcaa ggcatacat aaccgtgctc ggctgcgccc gacgacacta tggccacgca 300
 tacagtctga ccttaacagg aagcttgccg ccatggtaaa tgac 344

<210> 19443
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-F10

<400> 19443

acgcgtccga tcgttgagct tatctacaag catgctgttc ctgttccgaa gtctgaatgc 60
 agcaaggggt cccatttgaa tattagcggg gctggtagtt acattgccgg tgtcttctgc 120
 gctattgttt ctcacccggc tgacaacctt gtgtctttcc tgaacaatgc caagggagct 180
 acaatgggag atgctgttaa gaagcttggt ctctggggtc tcttactag aggacttcct 240
 ctctgtatcg tcatgattgg tacccttact ggtgctcagt ggggaattta cgatgcattc 300
 aaagtgatgg ttggactccc aacaacggga ggtgttacac ctgccccagc agcagaggct 360
 gaattgaaag ccagtgcttg attttttctt ctgtgttccc tgagatcata tttgggtggag 420
 tggaattgta tc 432

<210> 19444
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-F11

<400> 19444

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atcttttgac ctgacgggaa ttctattggt cctcctatgg gaaatccatg gatctacatg 180
taccctaaag gcctaaagga tctccttatg atcatgaaga acaaatacgg aaacccgcct 240
atctatatca ccgagaacgg aatcggggac gttgacacaa aggataatcc tctatccatg 300
caagatgcgt tggaccaact acaagaggct agattacctn cagcgccaca tctcagttat 360
caaagaatca atagacttgg gggcggacgt gcgcggnac ttcacatggt ctctgttgga 420
c 421

<210> 19445
<211> 188
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-F12

<400> 19445

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gctttctaaa actagagcgg ctcaccaata cgccgtcgta tgcttagtac cgctgcttcg 120
tcggcggcct cgctgggac tcctgtggac ctcttcactg aaaatccctt gatcaacttt 180
ctccttaa 188

<210> 19446
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-F2

<400> 19446

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ggctggaggc ggcgggatct cttgggtctgc agtcctgctt cacctcgatg gatgatgtct 120
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 cctggaagag gcgaggtaag ctgcagcatg taaaagtctg cgtgcgtcga cagcaaaaaa 240
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 caggccaggt attaataaaa agatgattat tgtgtgccgg gggaggagat cgcacggngg 360
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<210> 19447
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 <212> DNA
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<223> Clone ID: LIB3062-009-Q1-K1-F3

<400> 19447

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 attacaatgg acatattcct gagcatgacc agagccaaat ttggcttact gattcatgcc 180
 actcttactg caaaggcggg ttaaacatac agccatttca aatactactc tggcattacc 240
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<210> 19448
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-F4

<400> 19448

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 cttgcctggg ccaccagcaa cgagtcgctg gagaatgcct tcgcctccta cggcgagatc 180
 ctcgactcca aggtcatcac cgaccgggag acggggaggt ctcgcggtt cggttcggtt 240

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448

<210> 19451

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-F8

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aaccaagatt ccattcccct ggctagtttt caatgagaag gtgaaagtga attctgtttt 180

cctccgggat tcaactgcta tatctgattc tatactgttg ttattcggag gctgcataaa 240

acaagggggc ttggatggac acttaaaaat gcttggaggt tatcttgagt tcttcatgaa 300

tcgcgatctt gcttcaactt atgtgagttt gaagagagaa cttgagaatt taatccattg 360

caagctccaa aacccaagga tggatatcca aacgagtga gagctgctat cagccatccg 420

tttg 424

<210> 19452

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-F9

<400> 19452

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agtgccaggt tgggtattag ctttgctggg gggtagattg cccgtgtctt ctgggctatt 120

ggttcttaac cggtgacaa ccttgggtct ttccttgaca atggccaagg aacctccatg 180

ggaaaatgct gttaagaagc ttggtctctg gggctctctc actagaggac ttcctcttcg 240

tatcgatcatg attggtaccc ttactgggtg tcagtgggga atttacgatg cattcaaagt 300

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gaaagccagt gctggatttt tttt 384

<210> 19453

<211> 415
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-G1,

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 aggtggacct gcacaccaag cgcacggggc atacggagtt cgcggacaag accgcggagg 180
 cagccaaacc catcgatctc gaggcgccgc ttaagccggc ctccgaggat gtcatggacg 240
 tagacacgtc ggcttcggcg agtggggagc cacaagagat ggttgctccg gaggtgaaca 300
 aggagatgct cacggacctt gagggcatgg gtttctcgac agcgcgcgcc accagggcgc 360
 ttcacttctc cggtaatagc accattgaag gtgctattaa ctggctntct gagca 415

<210> 19454
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-G10

 <400> 19454

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 cgcggaccgg atgcatgtgg accagccgct cccccctgcc gtcgcaggca cagcacacgc 180
 tcccgcgcgac gccaaagcatg ctggttctat gattgaaggg agtgatccgg tcacaggcca 240
 tataatctcg acaaccattg gagggaagaa tggagagcct aaaaggacta tcagctacat 300
 ggcagagaga gttgtgggaa ctggatcatt tggaatcgtc ttccaggcaa aatgtctgga 360
 gactggtgag actgttgcca ttaagaaggt tttgcaggac aagcgctaca agaacagggg 420
 gctacaaa 428

<210> 19455
 <211> 165
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-G11

<400> 19455

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ttatgcgtta tttttaatac ccatcagatt ttctatatcc catttcaaca ccactctacc 120
gatatctttg acccaaactcc cacaaaccag ccaatccccc aaaaa 165

<210> 19456

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-G12

<400> 19456

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aatgggaggt atcctggcta gccctggctt aattaactga atgggggtacc tttgaaaggt 120
tggagggtta aaaggaagga agagaggaat tatatggagt gattagatat gaaggctatt 180
aatatctaac ctagtaacct gtatgaggat tagacacaaa cggggattag aaggaaaact 240
cttctttctt gttcggttgc gggcaaggcc ccagtcggc ctctctctc cttctaaacc 300
ctagctactg ccataacatc tggatatagga gattgccagg ttccaatgag ggcggaac 360
agtcgaaggt gcccaccct gccgccgtg catgtatcta tgcgtgcttg gaatcctggc 420

<210> 19457

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-G2

<400> 19457

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caaaatgaag ggggccggaa ctttggttgg ccctggccct ggcgtgtcga ccgccgaggc 120
gaggaacatc aagacgacga cggagaagaa ggacgacgag gtggtgcagc cgcagacctt 180
cccgcccttc gaccgctcg gggcgggcgc gtccccggcg ttcggcgggc tccccggcgg 240
cagcattcct ggcagcagca ttccccgggt cagcatgccc ggcagcggca gcagccttcc 300

cggggttcagc ttgcccggca ggggcagcat gccctcttc ggcgggcggt ccccggtt 360
cagcggttc ggcgcatgc cgggtcccc caccgccggc tccgtcccc agcacgcaa 420
caagccctga actcgtctg tccgtccgat ccgtc 455

<210> 19458
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-009-Q1-K1-G3
<400> 19458

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attggtttgc tgccatcgtc atggacaagg cgtatgacgg ctttgagaag gcgtactcgt 180
tcaacggcac tgcagtgggc aagaacacga tctttatgca gggctctggag gggcttaatt 240
acctggtgaa gcagaccaac atgagcgggt ccgactacct tgttcctggc aagcaacagt 300
cagtcctctc attcaccaag aagctgacct cggggttaaa tgcgttgct ggagatggct 360
tcccaacaaa ggtcttcttc aatggcgacg aatgcgctat gccacagaga attccgatca 420
gcaactggatt t 431

<210> 19459
<211> 416
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-G4
<400> 19459

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cgcttgcaag ctaccttgct ctgatgactg ccattttctt atgggctatg cacaatactc 180
gatttcttat cggacaaatt cgatgatgac gtcgatcatg tacagctatc atgaaatgat 240
ctccggccta tacctctaac tgagtatcat gagccaggct gtgatcttag tcacctgata 300

ccgtaactag accttcgtgg aacgccctgg tctggttctt gtcaccgagt tcttgcttga 360
 taaacttgcc gtcagcttgc tctatgtcta cgccaactgg ggctatgaca ggatca 416

<210> 19460
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D7

<400> 19460

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 ttacatctca tcaccacgtc gatcgtcaag gaccttaact cggcgtcgaa acacacgaaa 180
 ggcacacacg atcaactcga tgaaatgttc atggtcagct aaatttgtat tgaaccagta 240
 tattgcgcct gtcatgttcc ttcgcacata ctggatccac gagcatctct ctacttttac 300
 taacgaccta accgactact tgatcagact tcaatacgtc ctgatcagat tgaatgtcgt 360
 tttcataagt catatgtg 378

<210> 19461
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D8

<400> 19461

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 caaaaccaat tctacaaaac ctactttttg acaattgagc aagagatttt tgcagtcctc 120
 acagacacat tccacaaaacc tggtttcaag cttcatgttt cggtgctaca acacttgttt 180
 tgtgcggttg atgggtctaac ggagcctcta tgggacgcgt cttctgtacc ttaccaatat 240
 acggataatg ctatgtttgt tcgagattac accataaagc tcttagggac atcatttcct 300
 aacatgacag taaccgaggt gacaaagttt gtagatggtc ttcttagttc aaaacttgat 360
 cttccaagct tcaaaaacca tattagagac ttgctggtgc agtccaagga gttctcagtt 420
 caag 424

<210> 19462
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-D9

<400> 19462

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 cgtaacaatt tgcttggaag gtctcgagaa cattcttgaa gttggccaag cagagaaaaa 180
 ccttggtgca agtgatgtca atgtctatgc acagatgatt gatgatgctg agggcctgga 240
 caagattgag aacctgcaga gccatgacaa caccgagata tatgagaagg ctgtgaagat 300
 gctggaatcc tactggctgg aggaggaaga tgatgccatg ccctcaggcg acaatcccca 360
 gaatggcttc aactttggga accagccctc tgttccatca ggtggattca actntggctg 420
 aagatgc 427

<210> 19463
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-E1

<400> 19463

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 agtggccaac gcctgcggca gctgcccagc cccaacgccg ccggtcgtgc caccgccgac 180
 gcctcctgct gctacccacac ccccttcac atccagtggg aagtgccgcg tgaacgcgct 240
 caagttcggc gtgtgcgtca atgtgctcgg cctcgtcaaa ggcgaggctg gcaaggtacc 300
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 tgcccctcgt ca 432

<210> 19464
<211> 343
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-E10

<400> 19464

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gccgtagcca tggtttccgc tgcgcagaag aagatggcaa ttgtttgctt gatgctgctg 120
gccgtcgtcg gccaaatcgt cgctgatgct gatgttaccg tagaacatcc cagccgcac 180
tgcaccgaaa cggtgattga tctctgtgtt cccaacaacg agtgcatatg ctccaagaac 240
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gactgcgtnc tcaagaacga ctgcatctgc agcagcaaga tca 343

<210> 19465
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-E11

<400> 19465

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cgcctcatgg acggcctcct catcttcgtc ttctacctct cgctgcccac ccgtgccggc 240
cgcgaccact cgtaaatcgc cgcctctaatt tgtagccgg cggcggcacg ccattggtcg 300
gcacggcttc cgagaagctc gatctggggc ctaaccaggc agcctcacgc gggatcagga 360
tcgatggacc agccaccgaa tggattcgcc ggcggaggtt ttttcacgca cattgatggg 420
caaaaccg 428

<210> 19466
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-E12

<400> 19466

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tgagagtcac tgcctattct gggtaggagt tgccgataat gttggctttg acaacaaaacg 180
aactgctctg aacctccctg gaatccctat tgcaaccgga ttgtatggtt attgtacttc 240
agggcacgag gtgtttccaa acatctactc ttctctgaag aagcgcaatc agttcccttc 300
aatccttttt acttgcatg ggctgtctac catttcattt gctgggtcac cggtgatggg 360
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<210> 19467

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-E2

<400> 19467

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ctgtgtcatg gcagagctgc ttctaggaca ggctctgctt cctggagaaa gtggagtcga 120
ccaactactt gagatcatca aggatttggg tactccaaca agggaagaga tcaagtgcac 180
gaacccaaac tatacggagt tcaagttcct acagattaaa gctcatccgt ggcacaaggt 240
ttctcaaaga atgcttccac ctgaagcact ggaccttgcct agcaggtttc tacaatactc 300
accaaactta ccgtgcactg ctttgcatgc ctgtatgcac cctttcttcg atgagctgag 360
agaccacac actcgtctac ccaatgggtc ccctctgccg cctctcttca acttcaaata 420
tcaagagcta a 431

<210> 19468

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-E3

<400> 19468

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gcgggcgcaaa ggccggggggc tactcctccg gtctcccgcc gtcggagccg ccgcacctgc 180
agggccagcc gccgcaggag tacgggtacg gcacgttcca gggccctcgg catectcccc 240
tcgggttccc gcagcctgcc ccgcctcccc ggttcggcgg cgggggcggc taccacaacc 300
agcaacagcc gtacgcgcac ggggagacgt actacgccc ggggtaccag gccgtgccag 360
gctatggtcc tggttctgaa ggaagacctg tgagaatgag gcgtctccca tggtgtggcc 420
tcggcttagg ctggtgcctg 440

<210> 19471
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-E8

<400> 19471

tggtgggcat gttcatatta taacatgcaa tgatgactta taccagatga taatagtagc 60
atacacagat gtgaaaacta ttgtatctaa tttcaaagct tctgatgtg caccatgccca 120
tgtcattgct cctgtctatg cttaaagctc aactacttat cctaaactaa tagacttgac 180
aatacacatt aatcacttga tattacttca actcttcata tgacatccac gcaacaacga 240
cattcttctt actcaacaac ggacaactaa tctacaagct agttgacgca aacaaacctg 300
agc 303

<210> 19472
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-E9

<400> 19472

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ggtgcctact gcggggggcca tggcaagcct ctctccatct tctatcggcc caaaattgcc 120
tgccaacacg ccgacgggct cagccaagtc cccgcgggga cgcgtcaccg tcgncggagg 180
cctcgtcgcc ctgcgcgcgc taccgctgc cgtcgcggcc gggatcatgt tctagagcat 240

ctaccggtcg tcttagactt tgtgatttct tcgtcatcat tcttcttaca gcacacacat 300
 gtttgtgcat tatggtacta gttcgттаат tcacgtacaa acagctagct gttccaggca 360
 cgagattctt ccggatttgt ttccttgtaa taattccctt tgatgagcgt gtgttttgga 420
 tgtttct 427

<210> 19473
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D6

<400> 19473

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 actgatgcag ttatcaaggg gccgtggaag cttaaattag tttttgaggg aaaagaacag 120
 catgttgagc tggaggtggt caacttcact ggtgccggag gagttgcctt atcaatgtac 180
 aacactgacg agtccatcca tgcctttgct gacgcttcta tggccactgc ttatgaaaag 240
 aaatggccat tgtatcttag caccaaaaac actattttga agaaatatga tggcagggttc 300
 aaggacattt tccaggaggt gtatgaagct ggttggaaaa ctcaaatttg aagctgccgg 360
 catatggtat gagcaccgcc ttatcgatga catggttagca tacgcactta agagtga 417

<210> 19474
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C12

<400> 19474

ccggcccgac ccacgcgttc ggcctggggc ttcatttga tttaaccaga cccttgggat 60
 aagcttgctg tatatggaca ggttcttctg actagagttg gtatcctttg gttttttgct 120
 cttccaattc tttgcagtca gttcatggat cttgtaactg aacagtgttt atttgtatag 180
 atctgccacc agataaagag cctcttgatt ggaacacacg gatgaagata gctgcagggtg 240
 cagctaaggg cttagaacac cttcacgaca aggcgagtcc tctgtgatt taccgggatt 300
 ttaagtcate aaacattctt cttggagaag gatttcatcc gaagctatcg gactttggcc 360

ttgcaaaaact tgggtccggtt ggtgacaaga cccatgtttc aacacgtgtg atgggtacat 420
atggctactg tgccccagaa tatgca 446

<210> 19475
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-C2

<400> 19475

gttattagtg gaaaagctgg tgagagggtg gagaaaggat caataattgc ttccaaaagg 60
caaattgata caaaaattgg agcatcatca acaaagatgt atttccacta ctacgggcaa 120
ttattacatc agcaaaacat gttacaagat tntgttcgga caggaacata ctatgctgct 180
gtaatggaaa accgatctga ctttgagggt cgagttgtgg ttgatgttgg ggctggaagt 240
ggtattctgt cgttatttgc tgcccaggct ggtgccagac atgtctatgc agttgaggca 300
tccgaaatgg ctgaaaatgc tcaacgtcta atgtccgga atccgtcact tggacagcgg 360
atcacggtca tcaggggcaa ggtcgaggaa gtagagcttc cagagaaagc tgacatattg 420
atttctg 427

<210> 19476
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C3

<400> 19476

ggctagcggc gcgggcagca cgggcccccc gcaaccggcg ctgccccct ggttcccttg 60
cccggccttc cggccggggc ggttccccgt ggggcagcgt caatggccct ggcctaaacg 120
gcccggccgc aagcactggt ggcgcgaca gaccggcaa gtgcagccac ggatcaggcc 180
aggtacgtcc acggcgcggg gtgctttgcg cggctccgcg acggcgaca ggcggctcag 240
gcttgcgggc tcgcgcccc aacccccggc tggcgcggcc ccggccctag cctcggcgcg 300
ggcgaggcct tccggcgcg gcgccctgct gcgagcgcat cccggcgggc agcgcgaccc 360

ctgctgcgag cgcgtcccg cggcgagcgc gaccctgca agtcacaggc tcggggcggg 420
cagcctattc gc 432

<210> 19477
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C4

<400> 19477

ggcaaattatt gatgcagcgg tcagaaagtt ttcagacaaa ttcaccatta tgttgttcga 60
ttatgatggt cggactacag agtgggatga atttgagtgg tctaaaagag caatccatgt 120
gagtgccagg aagcagacaa aatggtggta tgcaaaacga tttttgcatc ccgatgttgt 180
tgccagatat gattacattt tcatctggga tgaggatcta ggtgtagagc atttcaacgc 240
agagaagtac attgagcttg ttagaaagca tgggttgga atctctcagc ctggtttgca 300
acctgataga ggactaacat ggcaaattgac taaacggcgt ggtgaccagg aagttcacia 360
agtaactgag gagagaccag gctggtgcac tgatccacat ctaccaccat gtgcagcatt 420
tgttgaga 428

<210> 19478
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C5

<400> 19478

ccatctccct acggctcgtc taacttaaaa cctcacacgc ccctaact ctctctcta 60
ctcaccacct cacactctac cacacacct catatacacc ccctc 106

<210> 19479
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-C6

<400> 19479

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ctcgtccggtc gtcgctagggc tgggtggaaa ggtggcgctg atcacaggcg gcgcgagcgg 120
catcggcagg gcaacggcgg cggaattcgt ccggcacggc gccaaaggtca tctcgcgga 180
cgtccaggat gacctgggac gccacgtcgc cgcggagctg agcctgccgg ggggcccggc 240
ccggcggcgg tccactacac ccgctgcgac gtgaccgacg aggcgcagggt cgcggcggcg 300
gtggacctgg ccgtggagct gcacggccgc ctcgacgtga tgctgagcaa cgccggcatc 360
agcggcagcc tggcgccggc ccncgtggcg gcgctggacc tggccgactt cgaccgcgtc 420

<210> 19480
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-009-Q1-K1-C7
<400> 19480

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gcggcgagggt tcacaaggct agcaacgaca aggaggagca tttcgtgctc gtgcacggcg 120
ccggccacgg cgcttggtgc tggttcaagc tggcgtgcct gctccggggc tccggccgcc 180
accgcgtctc ctgcgtcgac ctcgccgggg ccgcgggcag cctcgtcgac ccggacgacg 240
tccgctcggt cgacgagtac gacgcgccgc tctcgcactt gatggccgcc ttgccggacg 300
acggccgcaa ggtggttctg gtagggcata gcgcaggagg actgagcgtc acccacgcga 360
tgcattctgt cagagacaag atcaagcagg ccattctcgt agcagcgacc atgctcccg 420
tcgggtac 428

<210> 19481
<211> 381
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-009-Q1-K1-C8
<400> 19481

gtatcgatgc gtgcaatgga ggatgctctt attgctataa ggggtggtcg catacctggt 60
gcaagcagct tgccaacatt tgaggagatc aagaatactc ttggcttcaa ccactattac 120

gaagaagaca aacgatatgc ggtgacacca gccaacccat tgtacgggac tggctatgat 180
aattatacaa gtgaaccgaa cagtccggga gattccaggt ccagggctaa aaaaacacaa 240
gaacctgtta ttgacatatt gcctcagctc tatgatattg gttccagtga cagcagagga 300
ccttcaactg gaatgtgggc tcgaactctt cgactaaaga ttacaggaag agatgggatc 360
cagaaaatcg atgccaggat a 381

<210> 19482
<211> 103
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C9

<400> 19482

tctgtttgtg gtccgcattc gtggatatcaa tgccatgcac cccaagacc gcaagatctt 60
gcagctcctg cgtttgaggc agatcttcaa tgggtgtcttt etc 103

<210> 19483
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D10

<400> 19483

tcgtgcatag agtgggaagc ccacagccgg ctttccaatg ggcttaccct tggctttctt 60
aggggccgaa ccaaagaact tgggtggcct tttccgtcat gaccaggga ttcttggaa 120
ctacatcggc tttcaattga cgggtcaatgc tggcacagct gctgcagggt ccgcgagtag 180
gacggctcta atctctccat cacgtgttat tatctggtgt ttccataatg cgatttgatt 240
tcaatttggc gttagatggt gtacacgtgt atttaactgc ttgagttgta cgtaatttgt 300
atacttgtaa ctttgtttta taatatggct attactcaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaa aaaaaatata aaaaaaaaaa aatataaa 398

<210> 19484
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D11

<400> 19484

ccacgcgtcc gggctctaac tctgcttcta gaccggtgat gggtcagctt agaagcatgg 60
gatcttcatg gtgagaataa aaacgtgtgt tgttgtgttg ctgggtctac gccactagta 120
tttctgggtg tacttatggt cctaggtaaa actgctgcagc cagagcagag ctgaagaata 180
tgtactgctt gctcgtctct gtgtgggtgt gtctaccctt actagcattt cagctttgtt 240
gtaggtaaac tgccaaccca gagttgcaga acccgtagtg ctcggttaag ttcattggtga 300
actacgagct aaaaggctgt tgccagagtg gatgtcactt gtcactgg 348

<210> 19485

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-009-Q1-K1-D2

<400> 19485

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tcaagttcga ggagaaggac ggcacgcact acgcccgcgt caccgtgcag ctcccggggg 120
gcgagcgcgt gccgttcttc ttcaccgtca agcagctcgt cgccaccggc aagcccagaga 180
gcttcggcgg gcccttcttc gtgcccagct accgtggctc ctcttcttc gaccccaagg 240
gccgcggcgg ctccaccggc tacgacaacg ccgtcgcgt ccccgccggg ggcagaggtg 300
acgaggagga gctccagaag gagaacatca agaacgccgn ctctccacc ggcaacatca 360
cgttgagcgt caccaagagc aaccgggaga ccggcgaggt catcggcgtc ttcgagagcg 420
tgcagcc 427

<210> 19486

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D3

<400> 19486

acgggtggct tcttcttccc cttegggtcc ggttccggtt cctgaaggtt ttccgggttc 60
 gggttgcgtg gtcaaccgga tcgagatggc ggcgtcgat gttgaatacc gctgcttcgt 120
 cggcggcctc gcttgggcca cggacgacca ctcccttcac aacgccttca gcacctacgg 180
 cgaggtcctc gagtccaaga tcatectcga tcgggagacg cagaggtccc gcggcttcgg 240
 ctctgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgaaggca tgaacggcaa 300
 ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg 360
 cggcggcggc ggccgggtacg gtggtggccg t 391

<210> 19487
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-D4
 <400> 19487

gcttatatta gtacgaaagc aaggggggtca tctaccggt gtatcatcac tcttaaagat 60
 cagggtatcc atgctgtaaa tcttggggat agtgggttcg tagtagtccg agatggccgc 120
 actgttctca ggtcaccctc acagcagcat gatttcaatt ttacttatca gctcgagagt 180
 ggaggtggca gcgatcttcc tagttccgca caagtatctc actttccggt tgccccgggt 240
 gatgttatcg ttgctggcac ggatggacta tctgacaatt tatacaacaa tgagataagt 300
 ggtgttattg ttgaagctct ccgggttggc cttgagcctc agattgcagc aaaaaaatt 360
 gccgccctgg ctcgacaaag agctacggac aaaaataggc agtcaccttt tgcac 416

<210> 19488
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-D5
 <400> 19488

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 catcgcgccg ttctgtacc cggaaactgga gtgggacttc cgactgccgc tcgtgaagag 120
 catcaacgtc agtggacaca agtatggtct ggtctacgcc ggcacgggt ggtgcatctg 180

<210> 19491
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-A6

 <400> 19491

atctgtagtc cctatccacg catcacgctc tcaggcccta aggtacctgt gtatacgagg 60
 ggggatagaa gtgccaaatg ttgcagtcct cgtgggtgaa agcggcgatt cagattacga 120
 ggaactgctg ggggggtctcc ataggaccgt tatectaaag ggcgagttca acatcgccgc 180
 aaacaggatc cacacgggtga ggagataccc cctgcaggat gtcgtcgccc tcgatagctc 240
 aaacatcatc ggtgtcgacg gctacaccac ggatgatctg aggtctgccc tgcagcagat 300
 ggggtatactg gcacggtaac accttccgga gcttccgttt ccactaccag gtcaacgaag 360
 agaaaacgaga aaacagacag aatgggtgacg aaacaagtgc gaccgtttcc atgctcgatg 420
 ggaat 425

<210> 19492
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-A7

 <400> 19492

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 gcggtgttca gtggaactgg ggagcagtga gctcgggtgct gcagtgcgct agcgagggtga 120
 agcatctagt gatgaagata gagttctgtg gcgacctgga cgcaactccag ccgttcccgg 180
 aagtcgattt ggttgacttc ttcgacaacc accccaaact ccgcaaattt gagatccatg 240
 gtgccatggt cgctgccttg tgccagaaaa atagcctgaa aaatttgaat tcaaggttcc 300
 tcatcccttg tttggaagag gttctgatca ctgtacgctc cccactcaat gctgaacaga 360
 agctgaacac tctcgagtcg cttctgaagt acagtgtgaa gctgcggacg atgatcatca 420
 gaatc 425

<210> 19493
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-A8

<400> 19493

ccaaagtgcg atagccagat tgacttcgtc aagagcttca aaggagcagc acaggtacgt 60
gagaagaagg gctatacgga gttcactcct cattacatta cctgggtactg cccagaggcc 120
ttcattctga gcaagcagtg caagtcccag tgcatacaatc atgggaggta ctgtgcacct 180
gacccagaac aggatttttag caaaggatat gacggcaagg atgtggtggt ccagaacttg 240
cgccaagttt gtgtctttta gggtgctaag gagcacaaga agccttggtt atggtgggac 300
tacgttactg attttgcgat tcggtgcccc atgaaggaaa agaagtacac aaaggagtgt 360
gccgatggag ttatcaggtc acttggcctt gatcataagg cattagataa gt 412

<210> 19494
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-A9

<400> 19494

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gcagcttcat ccacgtcgcg gacgccgccg ccgaacggga agccgaggaa ctcgaccgga 120
agattgcctc cggggagaaa gatgcggtgg gtccgctcgc tggagtgctt gtggg 175

<210> 19495
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B1

<400> 19495

agggtattcta acaaaggttg ccaaactatg aaattgcaaa cctagggctc taaagtaggc 60
aaatgatggt ccaaagcatc tatgagcctg tttgtttcag cttctggcag cttctggcca 120

ctaaaagctg ctacggactg ccaaacgctc agcttttcag ccagtttcta taaaattcgt 180
 tggggcaaaa accatctaaa atcaacataa acacataatc gggtcagtcg ttgtaatagt 240
 aggaatccat cactttctag atcctgagcc ctatgaacaa ctttatcttc ctccacacgt 300
 aatcgtaatg atactcagat tctccccaca gccagatttt caaaaaagct ggtagaaaa 360
 aagctgaacc aaacaggccc tcgtctgccg atgtaagggt gacactgctg gaacgagcta 420
 tgc 423

<210> 19496

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B10

<400> 19496

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 aggttgcccc aagggtggcc taaatcgtca tcaacttcgt gaaggggttt gctttttgctg 120
 cacctatcaa gagcaccatc acttttggac catgaatgct tccctataga tatgaacct 180
 ctgttagact atttgtggat atgtacatat tgacttaaca cctgcaagca cactgttgct 240
 aagtgttgat gtatgat 257

<210> 19497

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B11

<400> 19497

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 gtttcggtcc cggggtgctt atccgcccc gccggccatg tcgaagcaag gaggggaaggc 120
 caagccgctg aaggcgccca aggccgacaa gaaagagtac gacgagacgg atcttgcata 180
 tctgcagaag aagaaagatg aagaaaaagc actgaaagag cttaaagcca aagcacagaa 240
 gggcgcgatt gggggctcgg gtctgaagaa aagtggaaag aaatgagact ggtcaccctg 300
 cttcaatacc tagaagatga taaggcagct gtctatctgt gttgcgcttc actaagtgtg 360

attgtaacag tggtagctct tgtgttctgt gttccgcat gttgcagttg gttgcttgat 420
cgaaagatgt ttc 433

<210> 19498
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-B12

<400> 19498

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caaggttgag ctggtggtgg aagtcaagtc cccggctgac aagcttgggg cggcgctgcg 120
tgactcgacg gagctgttcc ccaagatctt ccccgagcag tacaagagca tcgagaccgt 180
cgagggcgac ggcaagtcgg cgggcaccgt ccgcctcttc aagtacaccg aggcggtgcc 240
gatgctgacg ttcgccaagg agaagcttga gacggcggac gacgagaaca aggtggtgtc 300
gtacagcgtg gtggacggcg agctggcgga cttctacaag aacttcaaga tcacgctgaa 360
agtgac 366

<210> 19499
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-B2

<400> 19499

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gcgagcgnca ccacgctcgc acgcacgccc cacaggtaca gctagctccc acccctcaac 120
agcaacagct aagcttctcc tagcagacag caacatgacc gaggaggagg ccaagaaggt 180
ggaggtggaa gtggaggtca ccaaggcggc gccggcgaag gagaacgccg ccgaagagaa 240
ggccgtcatc cccgcgaccg agccgcggc cgcccaggag aagccgccag cgccggccga 300
cgactccaag gccctggcca tcgtcgagaa agttgcagat aaatctgctc ccgagaagcc 360
tatcgctgag aagcaagggg gctccagtat cagagatctc gctcttgcaa ggggtggaaac 420

ggaga

425

<210> 19500
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B4

<400> 19500

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gcgcgcgcgc caacgccacg atgaagttca acatcgcgaa cccttcacc gggtgccaaa 120
agaagctgga aatcgatgac gaccagaagc tgcgtgcctt ttatgaccga aggatatccc 180
aggaggtcag tggatgatgct ctgggtgagg agttcaaggg ttatgtcttc aagatcatgg 240
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<223> Clone ID: LIB3062-009-Q1-K1-B7

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agagcatgca gatttgaatg gtcttctcgt tgctcattaa ttctgcagtt gggcgttggtg 360
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<210> 19502

<211> 96
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-B8

 <400> 19502

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 gaaaaataaa aaaaaaaaaa aaacaaggat gccctt 96

<210> 19503
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 19503

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 cgagcgctgg atggagatgc agaaggagaa aagaatctac gagcttggct cttgcccccc 360
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 <211> 410
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 <223> unsure at all n locations
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 attgccaacc gacctacct gaccagtact accaaaaagt aaaagggaaa tgatttcaag 180

gcattcaggt cattttatca atcacttggt gagaagataa gaccacaagg aaatgggagt 240
 cttgttttca gatagcatca ttctttgatt ttcaatatgt cttccaccaa aagactcctc 300
 aactgtgtta ttcaattata ggctagttgt gccatcaatg tacatagagc tataatntct 360
 gagattggaa gacgtattac tgccgcatta tctttaccaa gtctggcaac 410

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 <212> DNA
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 <223> Clone ID: LIB3062-009-Q1-K1-A4
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<210> 19506
 <211> 445
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 <213> Zea mays
 <223> unsure at all n locations
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 cgaccagctc atgagcaaag ccgacaaact aacaaaattg agttttacaa gatggaatgc 180
 tgattggaaa agcgcctacct ncttgatga gcaagctgca attgcgtata ggttcagaaa 240
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 aaggccacaa cctgcatctg atgct 445

<210> 19507
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-G6

<400> 19507

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attgcttcag tgggctcctg ctgccttggt ggtgtaatct gggctgggac tctctatggt 180
gcaaacctgg gtgaactaag tgccgttctt ggaaaggctg gtaaagcaac ttgaaaagtc 240
ctgggccttc caattgtaat tgggccc aaa tgcctcctt ggggaagtta gacaagaact 300
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 <211> 432
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<223> unsure at all n locations
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<400> 19508

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tctcgaaggc tgatgaagat ctagattcac tgacgtttat ccagaagctg gtccactctc 180
gaggcacggg tcgagaaaagt tgcatattag ctgaccctt ggacccgagt ttgctcgaga 240
agatttcgga ttacgaagaa gatggaatta agtttgggaa aaggcggccc aaacagaggc 300
tccttttcga cgccgtanac gaagcgctca tcgaacttgc ttcgattgcg ggacctgctg 360
cgtacccctg ggtagatcat gctcttcgaa cacggggatg caggaacggt tcagcagtaa 420
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<210> 19509
 <211> 353
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-G9

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aaacctaata tatagttttc aggcaccatg tcaactcatgt ctccattccc aaggatggat 180

ctaagtaaaa tggatcccg c gactctgacc ctccctgggg cagctgggtg tgtaatgctg 240

actatgcatt tcaactgtgca attgggtgtca caacatctct tctattggaa aaaccccaag 300

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<210> 19510

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-H1

<400> 19510

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tatgtgaatc cctctctgga agtcatgtgg ccgaattcgt tgagactctc aaggcttttc 120

tcgaacgctg attaagatct atattcactg acgtttatcc acaagctgtt ccactctcta 180

ggcacggctc tagaaagttg catattacct gaccctttgg acccgagttt gctcgagaag 240

atttctgatt acaacaata tgtaattaag tttgtgaaaa ggcgctcaa acagatgctc 300

cttttcgacc ccttaaac 318

<210> 19511

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 19511

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ctgatgaaca tccctcaaca gtgaagtctg caatagggga tctctgtaaa caaccgatcc 180
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aagctggtca aacaaagtct gagggaagca gtatacttgg taaatttcag ataacatggc 300
gtacgaacct gngtgaacca ggccgtttgc agactcagaa cattcatagc actgttagtg 360
acattcctgc ttttgattta agtatnctat gttc 394

<210> 19512
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-H4

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ggagtccaac agatgtttcg ctaacataat tcgacttgag tg 162

<210> 19513
<211> 111
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-H5

<400> 19513
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atattgggat ccctcgctgg aagtcatgtc gccgaattcg ttgagactct c 111

<210> 19514
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-H6

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atgtcatcta tataaaaaaca tgtttcatgt ttagcttata atagtttata gttgagactg 240
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 atgtttatgg cttttctggg aaatatgggt tgacagaaat tatagcttct ggcttgagct 360
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<210> 19517
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-A1

<400> 19517

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 tgcattgatc cctcttcaca agccaaaatg tgtatctatg taccatcagc agctatcata 180
 ttgcatcaca cagtttggtg agaaggattg caaacttgct gacacagtta ttagaggctt 240
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 agaggtttta gaggaacac agcttgcaga gttccaaaga tgcattggtc cactcttccg 360
 tcagattgcc cgtagcatga aca 383

<210> 19518
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-A10

<400> 19518

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 tcgacttccc ggagttcctg aacctgatgg cgaggaagat gaaggacacg gactcagagg 180
 aggagctcaa ggaggccttc cgcgtcttcg acaaggacca gaacggtttc atctcggctg 240
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<210> 19519
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-A12

 <400> 19519

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 tgatcgtgct gtgttgaaca tgaagaaggc cgaagttgct cttgtcacia ttcctcctga 180
 atatgcattt ggttcaactg agtcaaagca ggatcttgct gttgttccac ctaacagcac 240
 agtaatatat gaagttgagc ttatttcatt tgtgaaggac aaggagtcgt gggacttgaa 300
 caatgaagag aagattgagg cttctggtaa gaagaaagaa gaaaggaatg ca 352

<210> 19520
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-A2

 <400> 19520

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 gatattcttc caaacaacaaa aggattgcca taagatcacc cggcagctta gaatggatgg 180
 gtggccagca ttatctatac atggtgataa agctcaagct gaacgggact atgttcttgc 240
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 tgatgtgaag gacataaagt gtgtgataaa ttatgatttt ccaacaactc ttgaagatta 360
 tattcacagg ataggtcgaa ctggccgtgc tgggtgctagc ggaactgcat ttactttttt 420
 cacacacg 428

<210> 19521
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-A3

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gtcaagggca.ccatctttttt caccgaagtg ggagatggcc ctaccactgt caccggaagt 180
gtctctggcc tcaagcctgg cctgcatggg tatcatgtgc atgctcttgg tgacactacc 240
aatggctgca tgtcaactgg accacactac aatcctgcta gcacggaaca tggagcacca 300
gaagatgata accgccatgc cggatgatctt ggaaat 336

<210> 19522

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-E5

<400> 19522

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gacgacgagg gggcagccat ggggcagcag tcgctgatct acgcgttcgt ggcccgtggc 180
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ttcaattacc tcgtggaaga cggattcaca tactgtgttg ttgctgatga atcgggtgggg 360
caacaaattc ctattgcttt catggatagg gttaaggagg atttcacaca aaggatatggt 420
ggcgggaaag ctgctac 437

<210> 19523

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-E8

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cttcggggccc cggcggcagc cgccgcccgt cccgctcttc cccgcccga agcgctcctc 120
ggcaccgcg aaccttcttt tcgctcgct ctatcgcttc ctcccggcca gccccatcct 180
ccggctcctt ctctctctcg cactcctctc cctcatcccg ccggccttct tccacctccc 240
gcttcgctgc ttccacaaaa tgcccgagaa gaagtgcggg tggatcgga ggccacccat 300
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<210> 19524
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-E9

<400> 19524

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aataaattaa acaccaagtc tccacaaaca gatactgacc taatagtaaa gcatacacca 180
ccaaatgaaa cagatccaac tctccaatgc aggcaggtaa ttaaaactaaa aagcagtaga 240
acacaagcta tatatatagc tagctagacg tacggtagct gcaaggccca actactgctc 300
gtatggagct aggggaaacc acgaaccacg catgcatg 338

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<212> DNA
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<223> unsure at all n locations

<223> Clone ID: LIB3062-008-Q1-K1-F1

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<210> 19526
<211> 379
<212> DNA
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<223> Clone ID: LIB3062-008-Q1-K1-F10
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<210> 19527
<211> 443
<212> DNA
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<223> Clone ID: LIB3062-008-Q1-K1-F2
<400> 19527

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443

<210> 19528

<211> 439

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<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-F3

<400> 19528

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cgccccaaa aaaaacccgt cttttgcttc ctgaaaggcc gccttcaatt tcccctaagg 180

ccgtattggg ccgctactta aaccagggtg ctactccac ctttcgcaac cggggcccc 240

gtctacctcg ctgccgtcct tcaatactc gccgccgagc tcctcgagtt gccggggaac 300

gcagcgcggg acaacaagaa gaaccggatc atcccgcgac acgtactgct ggcgatccgc 360

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<210> 19529

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-F5

<400> 19529

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aaaaccggca tgtccttgat tattggtgtc tacgacgagc caatgactcc agggcaatgc 180

aacatggtgg tggagaggct cggcgattac ctgatcgagc agggcttcta aaagtctgct 240

atgttctgtt ttggtcattt gggcaccaaa gtttgcgcct catttggttc tgtaatcogt 300

gagctcgtgc atgtacttgg cgtattgcat gcagtgaata atttagcttg ggtttgtttg 360

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gaaactcagc tgctgtt 437

<210> 19530
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-F6

<400> 19530

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<210> 19531
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-F7

<400> 19531

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 ccgacgatgg gagaacggat atagaataac ttctacagca gctactgtca atcaaactgc 180
 tttcatatag agtataccta acataaaatt aatggatgat acacaagaaa ctcttagaac 240
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<210> 19532
 <211> 289
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-008-Q1-K1-F8

<400> 19532

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cagtgggtggc ggcatgatcc ccgccggaac gatcgaggtg ttcatacaacc atttcgtcaa 120
gaacatggac ccgttggctt cggtcatggc gccaaaggtg tatcaccagc tgatcccaaa 180
cgaggtcagg tacgagaact ggacgacggt gaccggcgac cacttcgagc tcgacgccgn 240
cacgagggcc gacctgcaca ggagaggcca cgtcctgacg ccgatagct 289

<210> 19533

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-G1

<400> 19533

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tctagtctag attgccttag gagctacccg caaccaagaa ctcttcggc accttcataa 120
atcaagtcca gctacaagct gcggcggtt cagcacacat aagctgggtg cactctaacc 180
aacagcaatg tactgtgact caacaaccgc cgtcgtcgtt caaccgaatc cgaacaggcc 240
atacttgaag caacagtaaa tatgacatta ttacactaca ataaacgacc aacagtatta 300
aaac 304

<210> 19534

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-G10

<400> 19534

aaatgcaagg ttttgggtgac caacatgctg cttttgggtg tcgtggtatg ggtggattcc 60
agatgcctga acctccaata acgcctggac catttgctcc tggattgtca cgcaatgaag 120
gtacaatccc tggcattggg gttgcaatga ctttggcagg ccagtctttt gatggatctg 180
atggagagca gaggccatct attccgggtc ttccacctgg gcaacccccg ttgccaccag 240

gtcctcatcc atcacttctt gggcagcaac aacagtatca acagatacct cagcagcaac 300
 atccccagtt ttgcgagcca ccacctccaa acatgcccc aactgcaggca ccagctcaca 360
 tgctttcaca ttcacaagga tctc 384

<210> 19535
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-G12
 <400> 19535

gcaaatcaaa caaaactggc tatgaatcac tactgagggg atatagggaa accgatgtaa 60
 gccaggagaa agttcgtgtg ttaggttctt tggcatcatc ccctgaccat gatgttgtcc 120
 gtgaagtatt gaatttcata ttgtcacctg aggtgaggaa tcaggacgca atatttttgc 180
 taagaggggt gagttcaggg gcacacgagg tagcatggca atggctgaag gaaaactggg 240
 attacatatt gggagcctac tctggaactc tgctcaccta ttctgtcaac ataactgtct 300
 cgccactggc caccgacgaa catggtgatg aggcgganga gtttttcaag agcagaacca 360
 aggcgaacat cgcgaggact gtgagacaga gcacgagag ggtgaagatc a 411

<210> 19536
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-C9
 <400> 19536

cgttccgtcc aggcaaggaa gaaatcgagc agccaaggag aggagaagat ggctcgtacg 60
 aaggggaccg cccgcaagtc caccggaggc aaggccccgc gcaagcagct cgccaccaag 120
 gcggcgagga agtcggcgcc gacgaccggc ggctgaaga agccccacag gtacaggccc 180
 ggcaccgtgg cgctgcgcga gatccgcaag taccagaaga gcacggagct gctcatccgg 240
 aagttgcct tccagcgctt ggtccgtgag atcgctcagg acttcaagac ggatctgcgg 300
 ttccagagcc acgccgtcct ggccctccna gaagccgtcg aggcctacct cgtcggtctg 360

ttcgaggaca

370

<210> 19537
<211> 137
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-D1

<400> 19537

cctncccca cccgccctac gacctgacgt ccttccggtt cagcccatc aaggagtcca 60
tcgtgtggcg cgagatgacc cggcgctaca tgacggacat gatcaccac gccgacaccg 120
acctggtgat cgtgggc 137

<210> 19538
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-D10

<400> 19538

gcgattcaac aaagacgtac gtacatgcac aaaactagag cgagctgtgt gtgtgtgtgt 60
tcgtgatttc ctcgatcatg gcgaaggcgc aggcgcaggt ggcggcgagg ttcgatgatgg 120
aggcgccgcc gccgcaggtg gtgtcgggtca tgccggcgag gaaggcgccg aggagcctga 180
gcaccatcgc cgaggacgac agggagatgc tggcgccgtg cgggtcaccg tcggaccacg 240
gccacgtaca tacacataac tagagcgagt agagataccg tctcttactg tgtgtgtgtg 300
tgtgtgttta tcaactcctc gatgcatggc gaaagcgcat gcgcatgttg gcgcgaggtt 360
cacgacggag gt 372

<210> 19539
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-D12

<400> 19539

ggattttcaa cacctatggg cctaggatga acattgatga tggccgtgtt gtttagcagct 60
 tcatgtgctc aggtgtgctg cggtgagccc ctgactgtcc agaggccagg aacacagact 120
 aggagtttct gctatgttgc cgatatggtt gatgggtctta ttaagctgat gaatggaaaac 180
 aagactggac cgattaactt ggggaaccca ggtgaattca ccatgctgga acttgctgag 240
 aatgtgaagg agttgatcaa cccagatgtg acagtgacaa tgaccgagaa cactcctgat 300
 gacccccgtc agaggaagcc ggatatcaca naggcgtaag aagttctggg atgggagccc 360
 aagatcgtnc tgcgggacgg cttggtgctc atggaggatg atttcc 406

<210> 19540
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-008-Q1-K1-D2
 <400> 19540

aaactttggc cagctgcctg cgcccgccca actacccgc gcgcggcagc cgtcaacagg 60
 tcgagcgatg gaccacgaca ccacggtcgg atcgcggcag cgccagcagc agactgcctc 120
 gccagcggcg gctgattcca gggccatgat ggccggacctt gacgcgccac tgcacgccct 180
 cggattcgag atggacgaac tateccccgtc gaggcttacc ggacggctgc ccatcactcc 240
 catctgctgc cagccgttca aggtgctgca cggcagcgtg tcggcactgg cggcggatgc 300
 gctggcgagc atgtgcgcgc acatggtgta cgggtaccga cgcgtcgccg gcatgcaact 360
 cagcatcaac cacttccgca gcgcgcgcct cagcgacacc gtcctagcgc aagccgtcca 420
 cgttcacgtc ggacgc 436

<210> 19541
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-008-Q1-K1-D3
 <400> 19541

caaaaaaaaa agaagccgtt ggagcgcctc cctctcaaac ggcactcttc cccactggcc 60
 cactcctgcg ctccgtcccg catacaaac gtccgccaac aatcccccaa accctactcc 120

accacgcgat caccgaccga cgcctctccg acgagcaact caacccccca ccgcgcacgc 180
gagagccgga tccccacgat ggcgacgac cagcaccagg cgaaaccggc ggtggcgggc 240
gcgccgagca cgactactgg cgggtgggcag cgcgcgatgg acctctacga gaagctggag 300
aaggtcggag aggggaccta cgggaaggtg tacagggcgc ggga 344

<210> 19542
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-D4

<400> 19542

gaatcaaggg aggggtgaagc accgccgctg accgctgtcc ccggtcctcc gccgccgcac 60
aaagacgaga ggaagagggt cccggcgggc ccacgactat gtcgtcgatg atgaacgcgc 120
tggcgaaactg gctggcgaa cccgccgcga acccgctggc gcgcctccac atgcacgccg 180
tctcctcgcg cctcaggaaa tacggactga ggtacgacga cctctacgac ccctacttcg 240
atctggacat caaggaggcg ctcggtaggc tgcctaggga ggtggtcgac gcccgcatcc 300
agcgctcaa gcgtgccatg gacctctcca tgaagcacca gtacctcccg gaggacctcc 360
aggcacagca ggttccattc agaggatatt tgagtacat gttggcggtg gtgaaaaagg 420
aaagcgccga gcgtcagtc 440

<210> 19543
<211> 265
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-D6

<400> 19543

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aatattgtac ntgtgttttc atgtttccac acaagaacag aaaggggcta aaatattttt 120
cctttttgtc aggattgttg cttgatccca gaatcacat tctatttga aggccaaggc 180
ggacttttta gatacataga aaaacgtttg aaggacaatg gtcatatggt tatccgtggt 240
gcttaagggtg ctggaccgaa actta 265

[illegible]

<400> 19544

<210>	19545
<211>	379
<212>	DNA
<213>	Zea mays

<400> . 19545

<210> 19546

<211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-D9

 <400> 19546

 cattttgttg atggattctt ctctccaata tatgcacaac taggaatcaa catattgggt 60
 cttggcttca tcacatctgt tactttcata tttttgatcg gagtctttat gtcattcttg 120
 gttggggcat ctgtccttag ccttgggcag tggattatta agcgcgatgcc cttgttctgt 180
 catatctaca atgcatcgaa gcaaattagt gctgcaatat caccagatca gaacaaacag 240
 gcattcaagg aagcgggtcat cataaggcat cctcgtgttg gagaatatgc gtttggtttc 300
 atcacatcgt cagtatctct ccagagttat tccgggtcaag atgatcttta ctgggtctat 360
 gtccaacga accatcttta cattgccgat atcttcatgg tgaattcaaa ggatgtcata 420
 aggc 424

<210> 19547
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-E1

 <400> 19547

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 tttcttgtcc nacgcacca ccttcaccgg cgccggcgcc ggcgccgnca cgggcaactc 120
 cctctacccc accgtcgacc ccaacgagct cgcacagaac ctcttccccg agacggtcga 180
 agaagaccgg gaaccgccac cgcccaccac agaggagacc atcatcgctg tccccggggc 240
 gcagctccac ctcatcgacc ccgaccgcag cgtcgacctc ggcgctggca cgctctccat 300
 cgtgcgcctc cgccaggggg accactccgt cgccgtcctc gcgcgcctga tccacgagaa 360
 gtcccaccgc cgccgcggcc tcttcgcgtt gttcagcagc gggcgggtctg acgctggcgc 420
 cgagcaggag cccgtccagt gg 442

<210> 19548
 <211> 412

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-E10

 <400> 19548

 cccacgcgtc cgtgtgaact ggtgggggca caaatttga tttttatcag gagggtttct 60
 aggagcaaaa tcccgtaaaa ataaatcttc acaaaaagat cctgctaag tccgccagac 120
 atttgcagag gaagatcaag aaaatttgta caatcttggt caggataaag ctacttctgg 180
 aaagcagggt cttggcatca aaggcctgcc aatgaaagtt gctggccaac gttggaaggg 240
 aaacaaaact tcgtttgttg atagtgatga tgataattca gccagcccg atgaatattc 300
 agaaatcgaa gagaatggcg atgaggaaga acatatcagt gtttctgaat caatagacac 360
 agataagaat gcagacaaag aattgcttgt ggctgctaga cccaaaacca ag 412

<210> 19549
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-E11

 <400> 19549

cgagcgacga agcgcgacga aagagaagaa cctcggagct gagatggcac aagccatggc 60
 gtcgatgacc ggctctctgc agggcgctct gccagcagg cgcgccgaca gcagaaccag 120
 gacggccgtc gtcacgtca gggcgctcgc ggagggcgac gccgttgccg aggcggggccg 180
 ncgcgccgtg atcgggctgg tggccactgg catcgctcgc ggcgccttgt cgcaagcggc 240
 gcgcgccgag accgtcaaga ccatcaagat tggagccccg ncgccgccct ccggtggact 300
 ccccgggact ctcaactctg accaggcgag ggac 334

<210> 19550
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-E2

 <400> 19550

agagattgct ggtcgagaag aagagatggt acatatataa taactactgt gtaggcagcg 60
gcatctgctg ctgggacgaa gattcaagaa gctagctaag agagaagggc ataacgagat 120
aataagcagc gcgcgaagat gcaagactgg gcgccggtgt tcgtctcgct ggtgctcttc 180
atcctgctgt cgccgggcct gctgttccag atgccgggca agtgccggat catcgaattc 240
gggaacttcc aaaacaaggg cattttcaat cttggtcaag gcaatcctct tcttggcctt 300
ggccgccttc ttctctgctg ccgtcggggg gcacatgtac ctcggtcctt aggcggcggc 360
gcggggcgcc gtaccttctc tctctcgccg cgcgcgccat cgttctcttc ttttatgttc 420
tctctctata tatata 436

<210> 19551
<211> 397
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-008-Q1-K1-C7
<400> 19551

ccggtggcgg agaacgagga ggaggaggag gaacaggagg agttcaggga catccacgcg 60
ctgagcgcgc cgccgagcca gccgtcgctg taccgccggg cgcgcgcgcg cgagccgtgg 120
gggtccgccc cgggcgggag caggcacacg tccgtccgct ccgtcgggag cgacaccgcg 180
cccagcgagc ctttcccgac tatgaccagg gagttctcgg ccatggtcgc cgcagcagcc 240
agcgccgcag cagccagccg tgacgcgga agcgacgtcg tgggcagggc cgaagaagaa 300
gaagaagaag aacttgaaga gaccaacccg gttgccaatt gtcccagacag gaacccatt 360
ccgttggcgg gcccggggccc ggcggcgggc ggccccg 397

<210> 19552
<211> 434
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-B2
<400> 19552

cgaccgcgag ttctggcagt tcagcgacca gctgcgcctg cagacgaccg ccttctccgg 60
cctctggctc nncgactcca tctggtctcc ggccaccggc gccggcgggc ggcgcaacaa 120

caacaccgac ctactcgcgg cctccgcgtc ggcagccgac gccgggaagc acaacggcgt 180
 gggcctcagc ctgaatgatg gagggcccgg actcattggc tccgggaagc tcgccttcgg 240
 cggcagcaag gccggccgct acaacaacct cccatccgag aaggccgcgc ccgtctacaa 300
 ccacagcggc gccacgatca acggcggcta cgccaggagc gacaacgccg gcctggcggc 360
 gttcaacaag atggggagct acttccacaa cagtaacggc aacggcggcg gcggcgggga 420
 ggtgaagagc tact 434

<210> 19553
 <211> 249
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-B3

<400> 19553

gacgacgtct cgccgtgaca ccagctgagg tgtatcacgt atatggacct gggatgaagt 60
 tactaggcca ttcgtggcat ncaacagcaa ggtttagtcc ttgtttctgc atcacagcgt 120
 cagcatactt aaaatccctg tccctagccc atctgctgac ctctctgacg gtggcaagct 180
 tccactcgag gccatattcg tgtcctgcaa ctgcaagggt agctcacgca gtccaactgc 240
 tgtggtcct 249

<210> 19554
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-B4

<400> 19554

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 ggcctggcca ggtaccacgc gggggccctg ctgcagaatg ctacaagatg gctcttgctc 120
 atnctgagca gaatcagctt accgatgcac tatcttgttt ggacgaagca ttcttagccc 180
 ttgcaaagga ccagtcacgt gaagccgaca tcaaagcgca ggccaccatt tgtgctcagt 240
 acaagatcgc agttgctctg cttcaagaaa ttgctegtct gcaaagggtt caaggagctg 300

gtgctctcaa tgccaaagaa gaaatggcca ggctatctcg gcaccttgct tccctgcca 360
tccaggccaa gcacaggatc aactgcatca ggaccgcat caagcggaac atggaggtcc 420
agaactacgc ctacg 435

<210> 19555
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-B5

<400> 19555

aaaaatagcc agacaatgag cttaacgctt ctccagggt actcctccgc tgaggacgag 60
gacgatgccg ccgcccggcg cggcgctggc accgagctga gcgagtctgg tgattcgtca 120
gccgaggaag ccggatcgga cgaagacgag gagtccgctc ctccaaagcc gcccccaag 180
ctccgccgcc gaccaaacc taagggggga gatgccggcg gcagcgacgg gggctccttg 240
cttgctccg cgctggaagc cttecgatgat gtctcgggac caccagattt tttgaggcac 300
agggttgccg agccagaaga agggacggaa gccctcgggt tactcgatcg ccgtgggaaa 360
agagggagca aacagccgnc ttcaggtgct gttgtggtgg caaaaccaca gatagttgct 420
atccgcgagc gagttaccac aactg 445

<210> 19556
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-B6

<400> 19556

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acaatgcagt tccaaatgtg ctctgtattt ttgactttct gacttgaac aagaaccac 120
tactttggcc gtgcaatatt acatggaggt gcaaagtata gagcaaccgg tagaggtttt 180
gtggtacgac atatcaagtt tgctgagaac taccgtattt attctcgaag ccattttgtg 240
aaagggatgg aagttgcaat tttgttggtg atcttctag cgtatgggtt taacaatggt 300

<210> 19559
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-B9

<400> 19559

ccaagttcga ttggagagggc gtcgctcctc gagacaccta catcgcggaat ctctcaagg 60
 actggaagtg tgcactgaca gcgtccaagg ctccctggaa gatcgtcgtg ggtcaccacc 120
 ccatcagcag cgctgcggg catgggaaca aactgagct ggaggagttg cttctcccg 180
 tctcaggac acacgggggtt gacatgtcct tgaatggcca tgaccactgc cttaagcgcg 240
 tcagcaccaa aaacagtcgt tttcagctac taaccagcgg cggcggttcc aaggcattgg 300
 ctggcaagtt caagccaacc ctcgacaaag tggagttcct ctacgacggc caggggttca 360
 tgt 363

<210> 19560
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-C1

<400> 19560

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 tggcaggggg naaggacag aaggtctccc agggaaagaa aggtggtaag aaaaagaccg 120
 gcgatccctt ctctaaaaaa gactggtatg acatcaaagc cccatcggtc ttcaatgtgc 180
 gcaacattgg gaagactctc gtgtccagga cacaaggtac caggattggc tctgatggc 240
 tgaagcacag agtctttgaa gtttgtctag ctgatcttca ggtgacgag gatcaagctt 300
 acaggaaaat caggctccgt gctgaagatg tgcaaggcaa gaatgtgctc aaaaacttct 360
 ggggcatgaa ttttaccacc gataagctca gatctctagt aaagaagtgg cagacattga 420
 ttgaagccca tggtgatgct 440

<210> 19561
 <211> 388

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-C10

 <400> 19561

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 aagcgtggta gtcagttaaa ttgtgttggt ttaccagatg gtcaggctaa gagtagtact 120
 attggaaagg gatttgaag gattttggat tcgatctctg ctccccagc ttttgcagga 180
 gagttcccat ctaaccaccg catatccttg gctcgtatct ctggagcgcg ccccatcaca 240
 ctccatgttt ctgctgaagt gatccatata ggaagtttag ctgttccttc tggcgcagat 300
 aagtgggcgc tgcanaagga tcaaagcatg gagctgctct tctctgcaga ttttgaacct 360
 gatgcccgtg tacattgtgg ctgcaaca 388

<210> 19562
 <211> 220
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-C11

 <400> 19562

 tccttcattc ctccatacac ctatatcatc aatctcctcc aagactagga acaagcacta 60
 acttgcaacc aatgctcgcc tccaacatcc tctcttacca ccaccccatc atcatccct 120
 gcagtcacgc caacaacact gagctccacg acttccttct cccacatcct cagcacacac 180
 agttttcaca tgtacttcaa tgcccatgac cactaccttc 220

<210> 19563
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-C12

 <400> 19563

 attgtcactt ccattttctc aataccttaa gcaaggacca atgtctcaag cccagccgcc 60
 tcggtcccaa gccagtgga aacacgttaa atttcaggat aaccaagcta atgccatgaa 120

ggaaccagga actggtgggt atggctatgg gacgaaaaat gacaagaata aggatgtgga 180
tacaatagct tcggacttca tcaagctgaa gcacaaggct tgggcactcc agaagagcac 240
aaccatgtac caaccttcta cctaaagggtg ctgcttgag ccttggatat ttgcggagtg 300
aagttacat ggcacg 317

<210> 19564
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-C2

<400> 19564

ggatattgtt caggtatcat gtggaggaac acattcagtt gctctaactc gagatggccg 60
gatgttgtct tatgggaggg ggcaccatgg tcgtctgggc tacggcagga agctgacgac 120
aggccagccc atgggagtg acattgacct gccgccgcc aagacctgca gcagccggga 180
cgggcagtgg caggcgaagt acgtggcttg tggcgggagg cacacctg ctattgtggt 240
gtgggcagag accaccgact gatcacggag tgatcaactt cctgaatcct aatctgggtg 300
caaactgag ttgacaatc ctgctagata attatagtgt tagtgaaata agcataagtt 360
atgcgacatt aggcatcata aatTTTTatg tatgtgctta atttggcaag gaacaaaaat 420
agtcgggaag aggactt 437

<210> 19565
<211> 216
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-C3

<400> 19565

ctgtccactt tccccgtgct tctccgccgt cgatgccgag ttccagtgcg aagagactcc 60
gactcagatn gccagcncct gggtcgggcc ccaagtgtac ccgctgttcg cggcgacagg 120
cgtggccgct gccatctgcg ggtttcaact cttccggaac atcactggca aaccggagt 180
caggggtaac aaagcaagga aggcaactgg tgtgct 216

<210> 19566
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-C4

 <400> 19566

 agcaattaaa gatgacagac tggaatatgc atcccttcaa gcaatcctgt ttgggccatt 60
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 ttcagattgg atcaccgctg tccctccagc acacaactca cagctggtaa ccttcacaca 180
 agtatccaat ggaaaggcat ttgtcctctc aagtgcaaat ggcaccctga cgatgcaaga 240
 gcgacctgaa gtcgacggca ccgacgccgc catccatgcy acattcaggg ctcaccctca 300
 ggaggactcg acagagctgc atgacatcta cagcacaacc ttgacgggaa cttccattct 360
 gctcgaacca ttcgacttgc caggaaccgt gatcaccaac aacctcactt tatctgggca 420
 aaagaacttc gaattccttt tc 442

<210> 19567
 <211> 239
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-C5

 <400> 19567

 gttgcctatg ctgtaatcaa cggagtcata gacgacagct tctttgggggt gttcacgatt 60
 gaacagatca aggaagccgc gtccaaggta cgagtgtgaa cccgggggtct tgttccacaa 120
 tctctgaacg tgtgtttag gtggaaagtt cataaactta gcagtaactc attgatcctt 180
 gtgttcttta tttctcgctg aattttgacc atagtcaacc gttcaaaagt cagtgcagc 239

<210> 19568
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-B12

 <400> 19568

ccccgacagcc gccctagcac ccgcgacgag caggatctgc ccagttgctc ttgcggtagt 60
 tccggcaact gtcaccatgc agaacgagga gggtaagact gtggacctct atgtccccag 120
 gaagtgctcg gccacaaaca ggatcatcac tgccaaggac catgcctctg tccagatcaa 180
 cattggccac ttggatgcga atggcctgta tgatggtcac ttcacaacgt ttgctctctc 240
 tgggtttgtc cgtgctcagg gtgacgcaga cagctccttg gacaggctgt ggcataagaa 300
 gaaggctgat atcaagcagt agattttaca tctagtttac caagaattgg acaccgnctt 360
 agctatgttt tgaattcatg tcactatatg caatg 395

<210> 19569

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-C6

<400> 19569

tggctgcctc aaatattgag taccgataat taatcatcag actcgcttgg tccacttacg 60
 actacatttt ccacaacgcc ttatatatct atagcttaat aatacacatt actatcatcc 120
 tctatcctct gactcacaag tctacctagt tctgcttctt cactattctc cacggatgag 180
 gtttatacta acaccatcca ctgcataaac tgcactgaac tataccatca tatca 235

<210> 19570

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-H10

<400> 19570

cagccatcat gtcggaggag aagcaccacc acttcttcaa ccaccacaag aaggacgagg 60
 agcagcccg cggcgagtac ggggtactccg agaccgaggt ggtcaccgcc accggcgagg 120
 gcgagtacga gaggtacaag aaggaggaga aggagcaca gcacaagcag cacctcggcg 180
 aggccggcg catcgccgcc ggcgcttctg cactctacga gaagcacgag gcgaagaagg 240
 accccgagca cgcgcacagg cacaagatca cggaggaggt cgctgccgcg gcggccgtcg 300
 gcgcccggcg ctacgtattc caccagcacc acgagaagaa gaaggaccac agggacgccg 360

<210> 19571
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-H11
 <400> 19571

aaaggattgt gaatgaacga ggaacttcca tggttatgct caaaaacatt tcagaagcca 60
 agttgaagca tggcttaaag cctatagctg atgcctgcat cagagaggaa caaaaggaat 120
 atgttgattt cgagccatat tatacacata tagtctgtca tgaatgctgc catggaattg 180
 gacctcattc tatcaccctt ccaagtggta aaaaaacaac agttagaagg gaacttcaag 240
 aattccattc agcattggag gaggcaaaag ctgatatagt tggctctctgg gcaactgaatn 300
 tccttattaa gaagggattg cttnctaaga gcctgtcaca atctatgtat gtctctttcc 360
 tggcttgctg cttccggtca atccgctttg ggctggaaga agctcacgga aaaaggaca 419

<210> 19572
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-007-Q1-K1-H12
 <400> 19572

cacacacaca cacagacaag tggttttccaa agccaagtgt gtgtactagc aaccagctag 60
 ctcgggcggc agcaggcagc catcatgtcg gaggagaagc accaccactt cttcaaccac 120
 cacaagaagg acgaggagca gcccgccggc gactacgggt actccgagac cgaggtggtc 180
 accgccaccg gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac 240
 aagcagcacc tcggcgaggc cggcgccatc gccgccggcg ccttcgcact ctacgagaag 300
 cacgaggcga agaaggacct cgagcacgcg cacaggcaca agatcacgga ggaagtcgct 360
 g 361

<210> 19573
 <211> 299

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-H2

 <400> 19573

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 cattcgctcg aaccccgaag aactggcagt ggcaggtgac tagaggatca ctactttgaa 120
 ctcatataag tgtctaata tggctgctgt tttaaaaaca agtggcagtt tttgtagtac 180
 acaacagcag cattttcagc aatcaagaag ggatcagttt ttgcatgggt cttattcaaa 240
 tttcaaacat tgcanaagca agaagataat aagcctgctc cactgtgtgc tagagtgc 299

<210> 19574
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-H4

 <400> 19574

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 tcaggtgcga ctgctacgag ccgaacggng agccgatccc gagcaacaag cggcacgggg 120
 ccgcgaagat ctttagccac cctgacgtca aggctgagga accatgggtc gggattgagc 180
 aggagtacac ctttctccaa aaagacacca agtggcctct cggttggccg ctgggcccgt 240
 accctggccc tcaggacct tactact 267

<210> 19575
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-H6

 <400> 19575

 ccggtcttga attccgggtc tgtcttgata tcatggtaaa acctgtataa aatataacaa 60
 actgaattga tggaccaaag atgtttcagt tggaatagct catatgatgg ttggacatga 120
 acagaccatg aacaggacca tcatgatgaa caaaagaagc atgaacaaac cttcaacgaa 180

<210> 19578
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-A10

<400> 19578

gttcctggcg gtgggcatgt ggcggtgtg gtccgccgtc gcgcgcttcg ccgccgagcc 60
gccggcgcttc cgcgtccgca cgtggaaccc cctccccaag gggccccgcc tgctggagct 120
ctacttggtg gccggcgggcg cgttcctgga catgtgcctg gagctcggcg gcggcatcct 180
cgccggcggc gcccggttcg gcccgacag cctcatctac ctcgagcacg ccggcatgct 240
gtcatgttc ttctcttcg gcgcgtcgc cctcctctcc cagaagacaa ggtctgtcgc 300
cacatttctc caccgtggat ccgcgcactc ttttctcgat ggatcgatcg agttcccaaa 360
gttggtacag tttgt 375

<210> 19579
<211> 355
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-A12

<400> 19579

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gtcagtttct ccattgctgg gatgtacggc attgcagttg ccgctcttgg tatgctgagc 120
acaatcgcaa ctggtcttgc tattgatgct tatgggccca tcagtgacaa tgctggtggt 180
attgctgaga tggctggaat gagccacaga atccgtgaga gaactgatgc tcttgatgct 240
gctggcaaca caactgctgc tattggaaaag gggtttgcca ttggttcagc tgctcttgtg 300
tccctggcgc tntttggtgc ctttgtcagc agagctggag tgaaggtcgt cgacg 355

<210> 19580
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-A3

<400> 19580

acgcctagcg acttgcagct tatttcaagg tatacgacat ggctttcatc tgtgttaacg 60

gcacgtaaag cttctggcgg tagcgcaaat tcacctgcag atgctgaatg ggcactgtct 120

atacctatag aagatttcat atatataatg catgatgtgc atgctgtaat tggcgagctt 180

tcagaatcag gcagcttcat tggacatgtg aatcagttac tagggtcatg ccccatgaa 240

gtatttaatc ttgtgaaaca aagtatactg caagctgttg aacctttaa ggaactgttg 300

cctgcaataa tcaatggtat 320

<210> 19581

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-A4

<400> 19581

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ctcgggcggc agcaggcagc catgatgtcg gaggagaagc accaccactt cttcaaccac 120

cacaagaagg acgaggagca gcccgcggc gagtacgggt actccgagac cgaggtggtc 180

accggcaccg gcgagggcga gtacgagagg tacaagaagg acgagaagga gcacaagcac 240

aagcagcacc taggcgaggc cggcgccatc gccgcggcg ccttcgcact ctacgagaag 300

cacgacgcga agaaggaccc cgagcacgcg cacaggcaca agatcacgga ag 352

<210> 19582

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-A6

<400> 19582

gagtgggaga agatgcagca gcagaaggag aaggagaagg agaagaaggc gatggagtcg 60

gatgcgtggc tctcgcactc ccaactccgac acgcggacgc cggagtcgga gatcgacgac 120

gacccgttcc cggagctggg ctctctgccc gcgttcgacg acatggggcg agccccagcc 180

cctgccggcg tcgt 194

<210> 19583
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-A8

 <400> 19583

 ggatgggcca ctgcttccga tggaccgttt gcctggggat actgcccggg gaaagaacaa 60
 aaacagacgg acccacccta cttatgacga ggaccatac agctaactca taagtacaac 120
 tacaggctcg ccgggcaagc gctgaacctg agcactgtgg gcgaccgga cctgggtggcg 180
 agagaccccg tggtagcctt caagacggcc atctggttct ggatgacgcc gcagtcgccc 240
 aagccctcgt gccacgccgt gatgaccggc gactggaggc cc 282

<210> 19584
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-A9

 <400> 19584

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 ccgggcaatg atcgaagaac atgatacttc tggggggaaa tcaaaaggac aaggaaccgg 120
 aaatgttctc attgttactc ttgttgatgc ggagacagaa agtagcataa acgctaccat 180
 gcttgaggaa gggcttgccc ggctcgaaag aagcaggaga tgggacacta gggaaaggaa 240
 aacggttctc cagaacctgg accagttcca ggacaaggca aagaaggaaa ggctgcggat 300
 ttggcagtac ggagatgt 318

<210> 19585
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-G9

 <400> 19585

 cgcacacagc cgccggggcg gcacagtgc gcggccacgc gggcgccgga gctagggttt 60

ccctgatccg gcagggccgg ggagccgccg gaaaccgttg ctcgatttcg gcgccggagg 120
 cgcgccatcg gtgtctccga ggacggcggg cgcgaggcgg gctggggagc tgaggcgcgg 180
 cgccgagggc tcagatctgg tatgaccgac ggcggcgaag acgggaatgc tgcggcgccc 240
 agggccctct cgcgcgggag gggacctgtg cgggccagcc tcgatgccga cgagttcatg 300
 gcgctgatgc acggctcgga tcccgtcagg gtcgagctca cccggctgga gaacg 355

<210> 19586
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-B1

<400> 19586

agacgatcaa gacaaatgtc atgggaactt tgaatatgtt gggctctggca aagcgaattg 60
 gtgcaagggtt tttgttgact agcacaagtg aagtttatgg tgatccgctt gagcatccac 120
 agaaggagtc atactggggg cacgttaatc ctataggtgt taggagctgt tacgatgagg 180
 ggaagagaac agcagatact ttaactatgg actatcatcg aggtgggtgt gt 232

<210> 19587
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-B11

<400> 19587

gcgcgtcact ccaacgtctt agtcgacgtg ctgccgccgg aggccgactc cagcatctgg 60
 ttgttagcat cgtcggagaa gcccaacgtc acttacaacg atattggagg atgtgacatc 120
 caaaagcaag aaatacggga ggcgggttgaa ttacccttga ctcatcatga gttgtacaag 180
 cagattggta ttgatcctcc aagaggggtg cttctgtatg gtcctccggg tactggcaag 240
 accatgcttg ccaaagcagt tgcacatcat accactgctg cttttatcag ggctgctcgg 300
 tcagagtttg ttcaaaagtc cttgggtgag ggcctt 336

<210> 19588
 <211> 387

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-E9

 <400> 19588

 atccaagatt tctcagggct cattggaagt ttttgaaaac tgtgggtcaac aaattgtttg 60
 agttgatgca tgagatgcat cctggagttc aggatatggc atgtgatacc ttctgaaaa 120
 ttgttcaaaa atgcaagcgc aagttttgtga cacaacaggt gggcgagaat gaaccatttg 180
 tttctgaact tctgtccaac cttgctacaa ccacgcccga tcttgagcca catcagattc 240
 atacgtttta cgaatcagtt ggccatatga tccaagctga atctgacaac actaataggg 300
 atgaatacct caagagattg atgagccttn ctaaccagaa gtgggcagaa ataatcggac 360
 aagcaagccc aaagtattga tctcctg 387

<210> 19589
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-F10

 <400> 19589

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 ctatgggtggg cctgatgggtg ctgccatgca gagaaggcca ttaatccatg ttaaggattc 120
 agataattta gtggatgtgg cactgactat aatcagaaat gaaatatctt cagttcctat 180
 ctttaagtgc atggcagatt catcaggggt gcctttcctt aatcttgcaa ccttacaggg 240
 gatcttgaaa tttcttttgc cgaagctaca agaagaggct gagggctgtt cccttctgca 300
 caatcagctt ctcagtattc ctattggtac atggtctcca catacggnga ggtcaagtag 360
 caggcaactc agaactttgc tactgagttc tcctctaaat ac 402

<210> 19590
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-F11

<400> 19590

attcccggt aagacaaaca aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaaatttttaa 60
aattaaaaaa aaaaaaata aaaaaatatg aaaaatagta aaaattataa aatacaaaat 120
aaaaacatta ataaatatta aataataaaa attatttaat ctatatttta caaaactctc 180
ccctttttta aaatc 195

<210> 19591

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-F12

<400> 19591

gaggacgccg cgctcgccgc tatcattcgt ttttgagac tccttctagc cccgccgcca 60
ccacaagacc aagagcaaga ctcgatcaa aggcgctcgc cgtggtcgcc gtcctggcag 120
ccgtcgtcct ctcggttgcc tccgctgccg atgctcccgc gccagcccc gtc 173

<210> 19592

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-F2

<400> 19592

gagctgcctg caatccgccg ctgagaaggg aggatcggaa gcgacgatga ggtcgtttgc 60
tcctgtcttt ctgtgggagg tcgtggcctg gctggagctg gcgggcaccg cgcagggcgg 120
caacttctac caggacacag agatgacctg nggcgatggc cgcggaagg tagtggacgg 180
cgggcgcggg ctggacctga cgctggaccg cacgtncggc tccgggttcc agtccaagag 240
cgagtacctg ttgggaaga tcgacatgca gatcaagctg gttgccagca actncgtggc 300
acggtcacca ctttctacct gtcgtcccaa ggcgacnccg acgacgagat cgactccgag 360
ttcctggggc acgtgaagcg ggagccctac acgtgcaca ccaa 404

<210> 19593

<211> 362
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-F4

 <400> 19593

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 atgcgcttca ttcctgaaca naatgacaga ggagcgctga cagaagatac tcatggattg 120
 tctgatcttt tgtcccagca accatcaaga tgtttgatct tgcggaccaa tggggagctt 180
 tctgtgcttg acatggacga tggacatgaa cacactctca caaattcaat tgaactcttt 240
 tgggtcacct gttcgcagtt tgaagagaag ggtagtctta tcaaggaggt ttcattggctt 300
 gattacggtc atcggngtat gcagggtgtgg taccatcac atggagcaga tcgttttaag 360
 ca 362

<210> 19594
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-F5

 <400> 19594

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 ctcgggctca acgactagtt gagagctcgc ggctccgttc gggcgagggg aggagggttca 120
 tgaggctgct gtaggctccg ttgcagccgc cgcgggaggg agtccgtgat tttggacgcc 180
 ccaccgcggc aagatccgga agcgcgttgg ctgttggtgc gtgagtttca gtttcgggtg 240
 tcgattgctt cagcctgctg agaagt 266

<210> 19595
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-F6

 <400> 19595

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 ggggtgcggcg cagcgagcga gaggagtgga ggatgacggc gcccaagcct ggcgggggag 120
 cgggtggcagc ggcgcggggcg ggcgcggcg ggcccaggac ggtgctcatg acgggggtga 180
 gcagggggct gggccggggc ctggcgctcg agctggcgcg tcgcgggcac gcggtggtcg 240
 gttgtggccg ttccgncgag cagctccgct cctcagaggc agagatcacg tcaccgtcgc 300
 gccacttcct taccctgtgc gatgtctagc cagtggagct gattaatcgc 350

<210> 19596
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-F7

<400> 19596

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 ccctggtaac cagctacaag cgctcaagg tataccaaga aactgagaa tgatgtacgt 120
 acatagttac caaagttatc tgtggaatca tgctgccagt atgagagtgg aaaagtatgg 180
 catctcacag gttgtagaag gtgacttagt gtataacaaa gaatgccctt cagaagaatc 240
 aacttccgta gatattctgg aaactgatga tgaccataca aattcaattg aaatcgatct 300
 atgttcttga gcacaaccag gaagaa 326

<210> 19597
 <211> 348
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-F8

<400> 19597

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 gagaggttca gcatgctaata cagtttatgt ttctggata tgggtatcct cctgcatatc 120
 catttcctac cattccgtta gtgtcaaaca ttcaagctga aggctatcag acaaaaccag 180
 ctggcacaag ctaccgaact tcggaagatt acctaaaaca gtcaagttcc acagaaatgt 240
 cacaagatat accatcaaga ccactaaca tgacaccaca nganaagata ganaagctta 300

agcgccggcn acaaatgcaa gcactgatag ctattcaaca acaacagc

348

<210> 19598

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-G1

<400> 19598

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ctccggggccg atggtggacc cgacgatttc gactggaggg accacggcgc cgtcggcccc 120

gtcaagaacc agggttcgtg cgggtcgtgc tggtcgatca gcgcgtctgg agcgtggag 180

ggtgcgcact acctcgcaac tggcaagctg gaggtgcttt cggagcagca gttcgtcgac 240

tgtgaccacg agtgtgatcc atcggagcct gattcatgtg attcgcgttg caatgggtgg 300

ctaatga 307

<210> 19599

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-G10

<400> 19599

cacacacaca cacacagaca agtggtttcc aaagccaagt gtgtgtacta gcaaccagct 60

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accacaagaa ggacgaggag cagcccgcgc gcgagtacgg gtactccgag accgaggtgg 180

tcaccgncac cggcgagggc gagtacgaga ggtacaagaa ggaggagaag gagcacaagc 240

acaagcagca cctcggcgag gccggcgcca tcgccgccgc cgccttcgca ctctacgaga 300

agcacgaggc gaagaatgac cccgagcacg cgcacaggca caagatcacg gaagagggtcg 360

<210> 19600

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-G11

<400> 19600

cccaagcatg caggcaatgc gcatcatgtc cgcttgcatc ggacgatgat gcaaattcgc 60
atgtgattat tgatgaatag tagaaagagg agtatactga gaacgagaac aggcattgcag 120
acatatctgc cgtgccttcc gtggcatatc tagagggaga gaagaaagag tatggagggtg 180
caccatgaac aatca 195

<210> 19601

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-G2

<400> 19601

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ttatagctgc ngctgcagca gctgcggcag ccaccaaagg cagtgtgtcc actgctttta 120
atcctccaat gagcacttct gtagcagctg gacaagctca ggttggtgct gaccctagct 180
caataagcaa gtttcaggct gatctcccca ttgccaggag gcactctctc cagcgcttcc 240
ttgagaaacg tcgtgacagg gtcgtgagca aaagctcgta cagccccgcc aagtcgttcg 300
atggcatgga gt 312

<210> 19602

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-G3

<400> 19602

ttccccgtca aatggagtta ctaagcccg ccaagtagaaa ttgatttcac gccnccttt 60
cagaaggata gatatgatta aagatttgga ggcgatggcc aagctcagta taccaaaaaga 120
tctatcaagt gatgaagcga atcgttatct gatagaagca tgtgtgaagt atgatgtgaa 180
atgtccacct tcccaaacga catcgcggtt gcttgacaag ttggttggcc atttcttgga 240

ggagacatgt gtgaatccaa catttatcat caatcatcca gagataatga g

291

<210> 19603
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-E8

<400> 19603

catcaactgc taccgagtta agtatattct gagctcgtct gcagccaaaa gcttccattt 60
gcattgcgat gggggctcta ggtcgtggcc tgctagctgg catctgcgcc gtcttgtag 120
cagcagtggc tgcccttgcc catggtgcgg aacaggaaac agcgtcaatg gtggtcggct 180
tgcccaagtgc cgccgactgc accaggaaga acatgaaagc tgatgcggca ttcaacggcc 240
ttcaagtggc tgtcaagtgc aagaacgccg acggcgtctt cgagaccaag gccctcggtg 300
aggttgacaa gtccggcagc ttcagcgttc cctcccggc tgacctcctn cgcgaggact 360
gcgagctgaa gcaagactgc ttcgngcagc ttcacaacgc ggccaacaag ccatgccccg 420

<210> 19604
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-G6

<400> 19604

ggcgaatctc tcgctaactg tcatcaatgg cggccgagcc caagatccta gagctgtcca 60
acggcgggat caccgcgagg atctccaact ggggcgccac catcacctac ctactcgtcc 120
ccgacgcca ggggagtgtc gctgatgtgg cgctcggatt cgatggcttg gatccgtacg 180
tgaaaggcat gtcaccttat tatggctgca tagttggccg tgtcgcgaat aggatcaagg 240
atggcaagtt tacact 256

<210> 19605
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-G7

<400> 19605

agaaggaacg ccttccgtcc gctgaccgtg aaggaactaa tgcgcgcgtt caacgatgcc 60
agaggtgata gttcgattgg agtcatcatt cttacaggga agggaaccaa ggcgttctgc 120
agtggcgggtg accaggcggtt aagagattct gatggatatg tggacttcga tagctttggc 180
cgctcaatg tcttagatct ccagggtgcag attcgccgtc ttccaaagcc tgtcattgct 240
atggttgctg gttatgctgt tgggtgggtga catgttttgc acatggtgtg tgatataaca 300
at 302

<210> 19606

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C9

<400> 19606

cccaaaaggc agtacaatgc ttgaacgata tagtgaccaa tgcactgatt catgccaag 60
agtggcttca ggacatgtca gccttgaaga accatgccat cttccggttt tgcgcaattc 120
cccaaataat ggcaattgga acatgtgctc tttgctacca ttaccagcct ttc 173

<210> 19607

<211> 263

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-D1

<400> 19607

gaaatcttgc aatccacccc tcgaaagaaa acctcaatca acaccagaag ctttcgatcc 60
caccgaggaa gaagagagga atggcggtccg angaggaggg agtcgtgatc gcctgccaca 120
ccaaggccga gttcgacgcc cacatggcca aggccaagga ggccggcaag ctggtgatca 180
ttgacttcac ggcttcttgg tgcggncct gccgcttcat cgcgccactg ttcgtcgagc 240
acgccaagaa gtccacccca gct 263

<210> 19608

<211> 388
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-D11

 <400> 19608

ctttttagttt ttcaagctga taggtgctgg agggaggaag gtgccgaagt tatgctagaa 60
 ctatcagaaa gcaataagtg gtgtatagtt gtgaagatac aaggtgttac taggtacttg 120
 cttaaaccctt cagatatgag gtcatatgtc attaatcgtc atactcaatc ctacatgtgg 180
 acagttgatg atgcatggaa gcttgagttc actgataggt gggactggct gttattcaaa 240
 gagttgcatg ttgtgggctg tgagcgtaat tctcagggaa aggcaatccc aattcctggg 300
 gtacatgaag tttctgggtga gatggaaggg attgttacag atcctttctt acgccctgtg 360
 ccagactata tcangatggg ggatgatg 388

<210> 19609
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-D12

 <400> 19609

gtccccgggca tagttcacgt cctgaagaac gggagcatgg aggcacggga gaacgctgcg 60
 gccggactct gcagcctgtc ggtggtggac gaatacaagg tcacgatcgg gggcacagga 120
 gccatccctg ccctcgtggg cttgctgagc gagggcaggc agcgcgggaa gaaggacgcg 180
 gcggctgccc tattcaacct ttgcatctac caggggaaca agggccgcgc catacgggct 240
 ggctcgtgc cactcgtcat ggggctcgtg acgaacccca ccggagctct gctggacgag 300
 gccatggcga tcctgtcg 318

<210> 19610
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-D2

<400> 19610

cttgaattg agcctttgat gatggaagct cttgagaaga ttgagaagga cattaagaaa 60

ccactgttga ggagcgacaa gaagaacatg gccaccctct tggcagagtt tgacaagatt 120

aacaaaaagc ttggctttcg gaaggaggat cttcccaaga tcgaggaaga gcttgaattg 180

gaaattgcca aaagtgaagct gactgaactt aagaaggaat gcgttgaagc aatggagact 240

caactcaaga gggaggagtt tcaagatgag gagatgcctg atgtcaggaa aatggacatc 300

agaaactttc tgtangcctg atcgac 326

<210> 19611

<211> 248

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-D3

<400> 19611

ggcaagggag aaattgaaga agaaaattgc tacatacaaa aatggtgttg ttattcggaa 60

acaggggggtt gaaagggcaa aagaggcttt tgctaaagat gaagcagatt tagcaaaatt 120

gaagggcgaa gagaaaatgc tccaaggact tgttgataaa ctcaaagagc aaaagaaatt 180

aatagagaat gcagaggaag aagagcgctt aaaaaaaaaa aaaannnaaa aaaaaaaaaa 240

agggcggc 248

<210> 19612

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-D5

<400> 19612

acgggggtcca atttgctgtc atgatacaaa cggctctcgga gctttttggg ctaagggact 60

tcgggggtaat gtacaacttc atgctgttag tgaatccact cgggtgcattc tttttctcag 120

ctcttcttgc tggctacatc tatgacaagg aagcagcaag gcagcaccca ggtgtactgg 180

agccttccga ctgctatggg cctgactgtt tcagattgac tttctatgtc tgcgcgctcg 240

tgtgttgctg cgggtaccctg ttgngcgtgt tcttcataac gaggataaaag c

291

<210> 19613
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-D6

<400> 19613

gtcgtgcca gccgccgccc cgccgcctc gtcaagcgca gcagccgccc cagcacgtcg 60
ctctcgtgat ctccagccatg gcggangtgg agcagcaaca ggacacgccc aagctcttca 120
accgctggac ctccgatgat gtccaggtga acgacatctc gctgaacgac tacctcgtcg 180
tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc ggtgcgctac tccaagaaaag 240
cggttcgcaa ggcgcagtgc ccgatcgttg agcgccttac annactcctc atgatgcanc 300
gggcgcaaca accggcaaga aggtca 326

<210> 19614
<211> 247
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-D7

<400> 19614

ggccgacggc accacgatgg gggagatcgt gatgcgcggg aacggcgctca tgaaggggta 60
cctgaagaac ccggaggcga gcgcggaggc gtccgagaac gggtggttcc actcgggcga 120
cctgngcgtg cggcacggcg acgggtacgt cgaggtgagg gaccgcgcca aggacatcat 180
catctncggc ggngagaaca tcagcagcct ggaggtggag aaggcngtgt acctgcaccc 240
ggcgggtg 247

<210> 19615
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-D8

<400> 19615

gcatccagat cgaggaggcc aacagcgcca agaagctggt ggtgattgac ttcactgcaa 60

catgggggtcc tccgtgccgc gccatggctc caatTTTTgc tgatatggcc aagaagtccc 120

caaatgttgt tttcctgaaa gttgatgtcg atgaaatgaa gaccattgct gagcaattca 180

gcgtagaggc catgccaaca ttcctgttca tgagggaagg cgacgtcaag gacagggtcg 240

ttggcgcagc aaaggaagag ctagcaagga agcttgaact acacatggcc tcgtagatca 300

gtgatgccgt aatgtagtat tcgcctaaat aagaggacgc ctngcctcaa ctctgaaaaa 360

actaatgctt ctgtgatggt aa 382

<210> 19616

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-D9

<400> 19616

atcaattcaa gatccaatct ttgctgctgc cactcggcga tccgatcggt ctcgatcaag 60

gtcggtgggc gtggctcgct gccgccatca cctcctctc cttcccgctt tacttgctt 120

ggctgctgct gctgcgcggc aggcgcagag tcatggggaa gcctccgccg tcttcatcga 180

tgctcgtcg caccgctacc ttcgggacca gcaagccgac caccaggacg cttcaatgtc 240

gttaaataaa gtttctgcgg ttgtttctgt cttgcttggg tttgcaccgt caacatccct 300

accagctatt tcttcttcga agttgaacaa agttcttctt cctaattccat ttgatagacc 360

gcgtgctggt ttcttc 376

<210> 19617

<211> 265

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-E1

<400> 19617

cccgtcgtc ctctctctct cctcctggac agcagagcac agcacaacac accgagaaag 60

aacaagcggc cgccagcgga gctcagaacc accatcagca gcagcagcac acccgggtcaa 120
 ccttccacac acgcgcgcac acacacatgg cgtegcagca gaggcaacag caagcgggag 180
 cggcggcggc ggcgtccttc gccgtgggct tcgaggacta tcctgccgtg atggcngagc 240
 ggctgggcga ggaccggctg atgcg 265

<210> 19618
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-007-Q1-K1-E10
 <400> 19618

caagtgggcg acaagggtccg ttcaagaaag cttaaaaact cttgcgggtcc tgaaactatg 60
 gaaagccctg atggaaccat agttggcatt gaggacgatg gcgagcgtga cgcttacgtt 120
 cttgtacgag tccacgcgt acacaaccct ttaaagggttc gcttttcaac ggtggagagg 180
 gtaacatatg gttttgctgc tggagactgg gtgcgggtga gggaggagga caagaagcgc 240
 tctcaggttg gcattcttca cagcatcgac cgtgacggtg cagtggcagt tgggtctgata 300
 ggagtggatc ccccttggaa gggcaattat tcagacctcc agatgggtga agcctactgt 360
 gtcggacagt ttgtgc 376

<210> 19619
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-E11
 <400> 19619

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 accccactcc cccgcaggag cggcggcggc ggcggcgagg tcgtacccca catcggcgag 120
 cggcggcggc accgcggag gcaaaggcaa gatgttcggg cgcgcgccga agaagagcga 180
 caacaccaag tactacgaga tcctcggggt gcccaagtgc gcgtcccagg acgatctcaa 240
 gaaggcctac cgcaaggctg ctatcaagaa ccaccccgac aagggcggtg accccgagaa 300
 gttcaaggag ctgcgacaag cctatgaggt tttgagtgat ccanagaaac gtgagattta 360

tgatcagtat ggtgaagatg cccttaagga anggaatggc ggtggaggat

410

<210> 19620

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-E2

<400> 19620

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gcgtgtgcac ggcgcggcgg tgcaaccaag ggtgggtgaa cccgcagaga ggggcagcta 120

gcttccttcc ttcccaggcg cgcgggagag gttagccgcc gtataagtag acagccagcc 180

agccatgtcg tcggtgtcgt cgtcgctgtc caacttctg ctctgctgct tctaccgctc 240

atccgccggc caccaccgcg gcggcgcta ctactacagc agccacccga cgagcgccag 300

cacctgcac taccacgagg gcacct 326

<210> 19621

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-E3

<400> 19621

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actgtagctg ctggccaaca catggatgtt gttttgcaca ctttgcagat cggctagctc 120

tacatggatt atgatctgat atcaaaatcc atcgataaat gaaagaactt gtttgaggaa 180

tgacgcgatt gtcagaggaa gaacacgttg aaagtatatg aaggctcgta cttgattgca 240

acaaaaaact tcaagaaagc tgccagctta ttttagact cgatttcgag ctttacaact 300

tatg 304

<210> 19622

<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-E4

<400> 19622

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aagacgaccg cagaggcccc cctcccccg tctacggcgg ctacggccag ccaccgccac 120
ccgaccgcta cggcgcgcgg cccgtcgacc ccgatccgta cggtcgacct ccgncccagt 180
ccgcgtacgg tggngccggn gacgcctacg gccacagcgg ccaaggctac gcgcccccg 240
cggcctacgg cgccgggggc cggtagggca acgtcgtcca cgtcgcgcac gaagtcggcg 300
acgagaggcc ttactacggc ngcgg 325

<210> 19623

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-E6

<400> 19623

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accccgtgc cccaaccag aaaaaccctc gaaaagcggc ggcggcgca catggcggag 120
gtcgaggctc cagctgctgc ggttgccggc gcgaccctg aggtggcgac ggtgaccgag 180
ggcggagccg ctacggaggc gaagggtccg cataagctgc accgncagtg gaccttcttg 240
tacgacatcc agtccaagcc caagcccggc gctgcgtggg gcacctncct caaaaaggcg 300
tacaccttcg acaccgtcga agagtttttg ggctgggatg atcatg 346

<210> 19624

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-C8

<400> 19624

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gaaagacagc aaccttctgt tctgggatct tgcagcagct tgactatggt ctggttgaat 120

gccaggccct gggtcttgct cccacccgtg agcttgcaca gcaaattgag aaagtatatgc 180
gcgcacttgg tgactacctt ggtgttaaag tccatgcatg cgttgaggga acatctgttc 240
gtgaggacca aaggattctc gccagtgggtg tgcattgtgn ttgtgttaca ccctgtcgtg 300
tgtttgacat gc 312

<210> 19625
<211> 282
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-007-Q1-K1-E7
<400> 19625

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caggggatcc atgctgtaaa tcttggggat agtggtttcg tagtagtccg agatggccgc 120
actgtttctca ggtcaccctc acagcagcat gatttcaatt ttacttatca gctcgagagt 180
ggaggtggca gtgatcttcc tagttccgca caagtatttc acttttccgt ttgccccggt 240
gatgttatcg ttgctggcac ggatggacta tttgacaatt ta 282

<210> 19626
<211> 228
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-007-Q1-K1-A8
<400> 19626

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acgataacct cgtgcatgac gtgaaactcg ctgctgacta gactaggatc cccatggttc 120
actagctggg gctggacttc atgaacttcc acgagctgtg caagaacatc aacaccgatg 180
aggccgacgg ctattctgcc ggtaccacgc ctgtcactct gaacaccg 228

<210> 19627
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-007-Q1-K1-A9

<400> 19627

ctgtcacaca cacacacaca gacaagtggg ttccaaagcc aagtgtgtgt actagcaacc 60
agctagctcg ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc 120
aaccaccaca agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag 180
gtggtcaccg ccaccggcga gggcgagtag gagaggtaca agaaggagga gaaggagcac 240
aagcacaagc agcacctcgg cgaggccggc gccatcgccg ccggcgccctt cgcactctac 300
gagaagcacg aggcgaagaa ggacccagag cacgcgcaca ggcacaagat cacggaggag 360
gtcgctgccg cggcgccgtt cggcgccggc ggctacgtat tccacgagca ccacgagaag 420

<210> 19628

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-B1

<400> 19628

ctccttcact gtcgcagccg cccctttagt aagcttcgag gctgctgctg ctgcgccccat 60
ggccgggggaa ggcaggacgc cgtccctcgc cgaggagtat tcacttccac cacaggaagt 120
tccagtggaa aaggcagctg aggagaagcc ctctagtggg actgagtctg aagctgctcc 180
ctcaaccaat gatgaaactc ctccatctgt agaagacaag aatggaactt ctgaagtaca 240
agatgctgct gaaaatccag aggcagaaga aactaacact gctgcagagg aaacacct 298

<210> 19629

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-B10

<400> 19629

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gggaacaagt ggatccctgg atgggaggca aagggttggt atcaaaggaa gatttgcacc 120
aaaaaatttc gaagcgatac ttaggagata tatcaatgaa tatgtcatat gcaatgggtg 180
caagagtccg gataccattc ttcttaaaga gaacaggttg ttcttctctc gatgagagca 240

gtgtggttca tgcaggtctg ttgctcccat caaggctgga ttcgttgccc aagtgggccg 300
 tcgtaaggct ggatcttaag ctacctacta cttgcctgaa gtcgctttcc gatgaagaca 360
 atgcanacta gtttgctggg tcacataaat cattgttgca ctttccc 407

<210> 19630
 <211> 72
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-B12

<400> 19630

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 ccgtttcggg gg 72

<210> 19631
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-B2

<400> 19631

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 gacaggggta gtgggcgtat tcaaggaagt ggtgggcgag gtggacatgt cctgcgtgga 120
 agatcaggat tggctccccg aggacttctt ggggttaact cccgtccatc tgcacgcact 180
 attgctaagg caaggccaaa cctgtcacta tgtttttggg catgggtcaag ttcctgacta 240
 aagtagaaac tgaatgggga gagcatgcct aagcttacat tatatggagg ggcaggagta 300
 tctgtgatgt ctgtgactaa tgcgttctct gtcagtattg gttggagg 348

<210> 19632
 <211> 355
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-B5

<400> 19632

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cccaggaagg acctgcaccg gttcgtcaag tggcccaagg tcgtgcgtat ccagcggcag 120
cgccgcatcc tcaagcagcg cctcaaggta ccaccggcgc tcaaccagtt caccgcgacc 180
ctcgacaaga acctcgctac gaaccttttt aagatgcttc tcaagtaccg gcctgaagac 240
aaggctgcca agaaggagag gcttctgaag agggcccaag ctgagaatga agganaaaact 300
gttgagtcga agaaaccaat tgttgtgaag tatggcccta accatgtgac ttacc 355

<210> 19633
<211> 348
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-B6
<400> 19633

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ggggagcggc tccaagggaa caggtgagat ggcaatcctg tacgcgctgg tggcgcgcgg 120
cacggtggtg ctggcgggagc acagcgcggc agccaccaac gcgggcgcta tcgcgcgcca 180
ggtcctcgag cgccttcccg acggcggcgc cgacagccac gtctcctaca cgcaggaccg 240
ctacgtcttc cagccaage gcaccgacgg catcaccng ctctgcatgg ccgacgacgc 300
cgncggaaga cggattccct tcgcattntt ggaggatatt catggaag 348

<210> 19634
<211> 368
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-B7
<400> 19634

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caagcgggaag gaagtccctc taaaaataga agaggatgtt gctaagctca gcggttctgc 120
agccaactaa gaagctacaa gtgaatgccg aggagagcag cgatgacttg gctaaccac 180
cgaaagtaga cgagaagctt ggtgctgtcc ctcatggcct gtccaccgac tctgangttg 240

cccagagggga agccgagtct atctctagga agactctcac gagctcagcc gagaagtttg 300
 agtttcaagc tgangtttnc agactcatgg acatcatcat caacttactc tacagcaaca 360
 aggatatc 368

<210> 19635
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C1

<400> 19635

cgccagaacg tttgtttcct ttatctaaaa aaaggtaaaa catctagcct cagtcgtgtg 60
 gccagtgaag attcatacat cctcagcgca gtgccagggg cactctcagt atttatgttg 120
 gacgatattg cggctagtgt acatgccatt ttggagcccc atttgcttct ggaaagggtg 180
 agtggtagtg tggtagtatg gcacaaccag tgagatatgg cttctcattg ttgctagcag 240
 atattcctga gtcctcttag acatgataat ttcacctgca ggcagtgtat ctcttgtaac 300
 taattccaat tttttattac ttttattata cattataact agttatgtca aatatg 356

<210> 19636
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C10

<400> 19636

ctcctgcgct gcgcggtcct tcacctccgc cgccgaatcc gagactctga tctcggggtc 60
 accggagcgc gcagagcacc cctgactccc ggcccgatcc gcgctctcct ctccgacgct 120
 tcagtcatgg caggaatggc acccgagggt tctcagtttg atgctaagca ctatgattct 180
 aaaatgcagg agctgctgag cactggtgag actgaggagt tcttcacttc atatgatgaa 240
 gtttttgaaa gttttgatga catgggcctt caggagaatc ttctgagagg catttatgca 300
 tatggttttg ag 312

<210> 19637
 <211> 228
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C11

<400> 19637

ccaagttcga ttggagaggg gtcgctcctc gagacaccta catcgcggaat ctctcaagg 60

actggaagtg ggcactgaca gcgttcaagg ctacctggaa gatcgctcctg ggtcatcacc 120

ccatcagcag cgcttgcggg catgggaaca aactgagct ggaggagctg cttatgcccc 180

tcctcaggac acacgggctt gacatgaact tgaatggcca tgaccact 228

<210> 19638

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-C12

<400> 19638

cttttcgagt ttagaacctc taaaatttcc ccactcgcc agtcgcagca gcacctgtag 60

ccatggacgc cagcggagcg ggtagcgggg ggaagaaggg tgcggccggg cgcaaggcaa 120

gcggccccag gaagaagtcg gtgacgcggt ccgtcaaggc cgggctgcag ttccccgtcg 180

gccggatcgg gcgctacctg aagaagggcc ggtacgcgca gcgcgtgggc actggcgccc 240

ccgtctacct cgccgncgtc ctggagtacc tcgccgccga gggtctggag ttggc 295

<210> 19639

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C2

<400> 19639

aatagacatg gctcccctat tcttgaggat aaagcggcgg cagttggaaa accaagatgt 60

tacaagtcgt ggcgcgagat cacagtcata cccatcttcc agtggttctc gagaagagtt 120

tgtggaaaga agtagagatg ctgcagcaga gtcctgcca aaacgagtga aaatccggct 180

accttctagt gccagtaggc agattgagca gcagcgcagt tcggggcagc gatttgcaag 240

ggaggacaag ttgccgcttg cattttaggg aatcacaggt actaacctct actgggcaga 300

cgaatt

306

<210> 19640
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C4

<400> 19640

cagtagttag agcgaccaat agatgagttc ctccccgtcc tttggtctcc tggctgtagc 60
agcatggctc ctagcactga gcttagcaca acatggctcc ctcgccgcaa ccgtcggccc 120
cagggtcatc gtcgtcggcg ccggcatgtc tgggatctcg gcggcgaaga ggctgtcgga 180
ggccgggata accgacctgc tgattctgga agcgacggac cacatcggcg ggcggtatgca 240
caagacgaac ttcgccggca tcaacgtcga gttaggcgcc aactggggtg agggcgtgaa 300
cggcggcaag atgaa 315

<210> 19641
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C5

<400> 19641

gttctagatc gcgagcgccg cccttttttt ttttttttac atttattttt agtttagaaa 60
accgaagggc gacggggcgga gcttaciaaag ccggtgccgg tgagcaatca tgaatttacg 120
gagcacactg tagtgtgcag tgtgccccca ctgatgtcta gaacgacgac tgatgatgat 180
agatcaccca cgctgccacg cagcgacgtg actgcgacgg gtccactga tgtaccgcgc 240
agtgacttca atctttggac gttccagtgg atggattcgc gacggagatc ccgccgtcga 300
cgaacaggtt gtggccgctg atgta 325

<210> 19642
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-A7

<400> 19642

accgggtccg agccagcgcg tctcgggaga agcgaccacc actttcttca accaccacaa 60
tgaaggacga ggagacagcc cggcggcgag tacggggtag tctcgagtac cgatagtggg 120
caaccgtcca ccggcgaggg cgagtaccga gaggtacata gaaggganga gaaaggagca 180
ccaagcacca agcagcactc ttcggcgagg cgggctgcca ttcgccgnnc ggcgccttcg 240
cacttcttac gagaannnga cgaggcgana gaaaggaacc ccgagcactg cgcacaaggc 300
accaagatca cggganngag gtcgcttgcc gcggcgggcc gtcgggcgcc gggcggctac 360
gtatttccac gagcacccac gnagaagaag aagggaccca caag 404

<210> 19643

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C6

<400> 19643

ccgcattcca cgcgcactcc gctgcctcac tccgagactc cgccgctgct tccaacttcc 60
gttgcgacag agcgaaacat ccggagctag caaggaggga agaggaggag gaggaagcga 120
tggcgggggg cggggataag gtggactacg tcttcaaagt ggtgctcatc ggcgactccg 180
ctgtcggcaa gtgcgagatc cttgcgcgct tcgcccgcaa cgagtttagc ctcgactcga 240
aggccaccat tggggtcgag ttccagactc ggactctcgt catcgaacac aagtccgtca 300
aggcgagat ctgggaca 318

<210> 19644

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C7

<400> 19644

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ccgaggaggc ctagggccta gggtagtccc gtccgggtccc ctgcggcgca agtccggccg 120

gcgggcgggc tgactgcctg gcgtcggtag ggggcgacgg cgatctatat ctgtcgatgg 180
gctactggtg ggaccgcgtc gtgctgccgg tgcggcgggc ctggctcggc gtcgcgtccc 240
gcttcggagt tcgccagacc ggtacggcgc gagggcgagg ctccggcgttc atcggcggct 300
tccgtacaat cttccgtc 318

<210> 19645
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-G3

<400> 19645

cgggtggggtg cgccttcaac cacgcgggtgc tggacggcac ctccacgtgg cacttcatgt 60
cctcatgggc cgagctctgc cgcggcgtag ccctgtcgtc gcagcccatc cacgaccggt 120
ccctgtcccc ctccgtgcgc gtgctggctgg agctgccggc gtccgccgag gccacgaga 180
agacggaccc gaacggggccg aagaaggcgc tgggtggcccg cgtcttctcg ttcccggagc 240
ccaccgtggc gcgcatcaag gccgcggcca acgcggcgct gccgtcgggc gcaaagccct 300
tcttcacgtt ccagtccttg ggggcgcaca tctgtgcgcg ccgtctccgc g 351

<210> 19646
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-G4

<400> 19646

gccccgttcc gacettgccc ctgcgggtctc ccgagtcccg aagcatcccc ttccaaaacc 60
ctcggcgcgc cggggtcacc cttgcttccg cacgctatcg cccgggacca gccatctatg 120
gcggcgctcc tgcctctccg cgcgtgcgc cgaaggagc ttgcgtcccc tctcggatcc 180
ctgggtgcca gcatacagtc aacatgtgtt gccaacatat gctcaaaatg gggaagggtt 240
gcaagacctt tcagcgcaaa agctgctgga aatgaggtta ttgggattga ttctggggac 300
aacgaactca tgtgtttctg ttatggacgg aaagaacca caagttattg agaatgctga 360
agggtgcgaga acaacaccat ctgctgtcgc atttactcag aagggcgaaa gacttggttg 420

aactccagcc aagcgccatg cattaaccaa ccccagaat ac

462

<210> 19647

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-G5

<400> 19647

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aggcgngtgc cggacgccag tgtgcaacgt ggcatgtcc acggttgtgc tctcacctt 120

gctgctcatc acgccgctgt tcaagtacac cccgaacgcg atcctgggct cgatcatcat 180

ctctgccgtc atcagcctcg tcgactacga ggccggcgatc ctcatctgga aagtcgacaa 240

gatggacttc gtcgcctgca tggggggcctt ctccggcgtg gttatcaagt ctgtcgagat 300

aggcctcttg attgctgggt caatctcgtt tgccaaaaat acttggtcaa ggtacaagac 360

ccagtactgg gctgct 376

<210> 19648

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-G8

<400> 19648

cttagaatgg agcgtgattc aattgaagac aaaatccatc atcttgaatg gtctcttaag 60

ctggatgata tctcagaaaa ccagaaggag aaattgttct ctgaacatga caatctgctg 120

aaacagagag ggcattgttcg tggctcttcat caagaagctc agaggcaaca tcatcagaag 180

tttcataagg tgtgggggaca gctcatgaag actgggtacc aaaattccag atttgctcat 240

caggttgaga gatttgcatg cttgtacagc agccagggtta caaacttcgg tttgtattcc 300

cctgacaaat actatcgtcc gagcgaagat tacatgcccc acgagnttga tgtgcttgng 360

ctgtangagc agcccctact gctggtcgga gttcctcgtt gtaattgatc catagcagga 420

taggaggggtg acatcgtagt tgccgtatta tataacagg 459

<210> 19649
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-H2

 <400> 19649

 tcggacagat aggattctga tgcacaagta ttatcatctt gtctctgttc tcattttcta 60
 tcctgcaggt atattgcaga cttctttctt ggacttggca tttggtgcat catttacagt 120
 tctcttgata ttgtctatga tacgaatttc gtaaataac tctcttggac atgttgtgca 180
 tcagtttatg aactacttta ctgatcatcg tggtactaag actcttattg tcaaccacta 240
 ttcactctta ctgtgctgag ctcttcttaa ttgtacatca tccagattac atgactgagc 300
 acttgtcctt ttagccagaa ttttcaactt agcgataggt cataccatag 350

<210> 19650
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-H3

 <400> 19650

 tcggagagcc atggagaaga aggcacacaa gctgatgatg caaaccaaaa tcaatgaaac 60
 caaggatgtc atgaagggga gggctaata gcttgacaaa atgaggatgg aaagaggcaa 120
 acttgacaaa ggaggatact catcaatata tgggtccacgc gtgattgaaa aaactttcag 180
 tgacatgagc atcagtgggt ctggattagg tggactgagc actgacatgg actcatttgc 240
 tagcaagccc aaaggccgct catctacagc agctactgca cctggtaaag gttttggtat 300
 gaaattaggc aagacacaga agacaaatca attccttgaa tctttgaaaa gctgaaggaa 360
 aaagtcattt tgggaggatg tac 383

<210> 19651
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-H4

<400> 19651

tccatctacc tgctccttcg actccttctt gatccagcca agccagggat cgccatgtcg 60

gactcggagg ggcaccacgt cgaatcgaag gccgacgccg gagcgtccaa gacctacccg 120

cagcaggctg gcaccgtccg taagaacggc ttcacgtca tcaagaaccg cccctgcaag 180

gttgtggagg tttctacctc aaagactggg aagcatgggc atgccaaatg ccactttgtt 240

gccatagaca tattcaacgg gaaaaagctc gaagatattg gtccttcgtc acacaactgt 300

gatattccgc atgtgaaccg tactgagtac cagctgattg atatatcaga ggatggattt 360

gtgagccttc ttacttcaga tggcaacact aacgatgac ttaaactccc aactgatgag 420

actcttgtgg ccagatcaa ggaagggttc gaaagcggca aggatc 466

<210> 19652

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-H5

<400> 19652

gtggatctgg catggatctc aggagcaaag caaggaccct ctccggcccg gtgaccgatc 60

ccaggggggt gcccaagtgg aactacgacg gctccagcac gggccaggcc cccggcgagg 120

acagcgaggt catcttgtac cgcaggcca tcttcaagga cccattcagg aggggcaaca 180

acatccttgt gatgtgcgat tgctacacc cagccggcga gccaatcccc accaacaaga 240

agtacaacgc c 251

<210> 19653

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-H8

<400> 19653

atcgagccgg cggcttgagg cggcatcagc gatggcggcg aagcgggaga tctcgagcac 60

cctgaggaac ctcaagttta tgcagcgagg cgaggctgag cagaaggccg aggagaaggc 120

cgagggtggag gtacaggagg aggaggtggg gatggcggcg agtggaggct tcgcctcgta 180

cgcgcatgtc gttaggaagt gcatagttat catggagggt aatcctcatc caggagctat 240
aaagggtcgg atgtctttcc aaaatttcaa tccatgtatc gataaactaa atgaagaggc 300
aagaggtgac cagcacacag aatcagctta cccagtaac tgtgaccaag acaatgcaaa 360
ctccagcata gggaatgaag ttccagcatc aagatgtaga gattttggca ttcccagttc 420
aaaaagcata tctctaaatg aa 442

<210> 19654
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-A10

<400> 19654

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gggattctga tgcggaagat aatgattgtg gacggccaaa tgataagatc ccagatactt 120
catcagcaga tgcaagaaaa ggaagggaca ttcaaggaat accctgngag cagataaaca 180
taaccgtaa aaaatacaga cagtccagat tagaacagta canaaattat gagaatgtac 240
ctaactctgg agaagaagct atgaaagatt gcaaaccaac agagaaaggt gggatatact 300
atgagtntag acgaaatact agatcggnta aatcaactat tctacattnt cagcttagaa 360
attttgatg ggcaacg 377

<210> 19655
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-A11

<400> 19655

attcatcaga ttcagatcag atcgtagcag ccaaggattc cgcgctccgg gggtgccatg 60
aaggtgaagc ggctctctcc ctgccttctc ctctctgcct tctttgccac cgcggcgtac 120
gcggcgtcag cgtcggcgtc gcgcgcggcg gccgtcgtca ggggcgcgga cgccccgtcg 180
cagtcggagt tggagtcgga cccggagaac cagtgcgtgt acacggtgta cgtgcggacg 240

gngtccatct ggaagggcgg cacggactcg accatcggcg tgacgctgct gggccccgac 300
 agcacgggca tccggatccg ggacctgacg acgtggggcg gcctcatggg cgccggccac 360
 gactac 366

<210> 19656
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-A12

<400> 19656

caagaagaga gccgatcgac cgagagctag cacgcgatgg cgaggtcttc caaaatgatg 60
 gtggcggcag ctctgctgga gctgnccgtg gccgtgtcga ccgccgaggc gaggaacatc 120
 aagacgacga cggagaagaa ggacgacgcg gtggtgcagc cgcagacctt cccgcccttc 180
 gaccgcctcg gcggcggcgc gtccccggcg ttcggcggcc taccggcgcg cagcattcct 240
 ggcagcagca ttccccgggtt cagcatgccc ggcagcggca gcagcctttc cgggttcagc 300
 ttgccccgca gcggcaacat gcccctcttc gggcggcggt ccccgggctt taacggcttc 360
 ggcgggatgc ccgggtcccc caccg 385

<210> 19657
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-A2

<400> 19657

gtcccgaatt ggcagcgcag agagccagag gatgcgttaa tgttactcta ctctatata 60
 gcagcggcac tattggcctc ctttccccac ttccacttcg ctctgtctc ccatgcgccg 120
 gattaccact gaccatttca cagtcacagt agtacagagc ggcagagtgg agaagtagac 180
 tctaagttag atggcggccg tgggtggcggc ggtggaggca ggggtggtgg cgggtggcaag 240
 cgggagggga tgcagcaacc ggctggtgcg gggcctgtac 280

<210> 19658
 <211> 341

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-A3

 <400> 19658

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 aagaggggact cggaggtgac gagcctggcg ccgtcgtcgc ctccgcggtc gcctccacgg 120
 acccgcgggc ccgtctacta cgtgcagagc ccgtcccgcg actcgcacga cggcgagacg 180
 atcaaggcgg ccacgtctgt gcactccacc cccgcgctga gcccctatggc gtcgccgcgc 240
 cactcgcact cccactccca ctcgctccatg ggcaggggact cctnctncag ccgattctcg 300
 ggccacggnc acaacaagcg caaggccgac aagggcggca g 341

<210> 19659
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-A4

 <400> 19659

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 cgatagacca agatgacggc gcaggctgcg gaggagctcg ccgccagat cgagcagcag 120
 aagctcgagg agcagaagac cgaggcagaa gaggttggtg tggaggagga tgacgaggat 180
 gatgaggatg acgatgatga tgacaaggat gatgatgaac tggatnggac agaaagggat 240
 gggagtggca agtcgaagca aagcaggagt gagaagaaga gccgcagggg catgctgaag 300
 ctnggcatga agcccatcac tgggtgtcagc cgggtcactg tgaagaaaag caagaata 358

<210> 19660
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-G2

 <400> 19660

 tcttgctctt cgcaacttgc tctatctctc actctccacg ggacttcatg tacactttcc 60

taactccagt gtccaacgtc atcatatata cagatgtact cataaccttg ctgctcatca 120
 ctccactatt caagtacacc ccgaactcta tctgtactc tatcatcatc tctgccgata 180
 taagcctcat ccactactag acggcgatcc tcatctggaa agtcgacaat atagacttta 240
 tctcctgcat gttggcctcc ttttaogtta ttttcaactc tatcgatata ggcctcttga 300
 atactccgtc aatcttgttt cccaaaatac tttttcaaat aacaaaaacc attac 355

<210> 19661
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-D8

<400> 19661

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 ggaggctgag agcgacttgg agtctgagga agtcctggat caatcccttg ccattgttgc 120
 caagaatgaa ggtttggaca aggacacaac tacaaaactc acaatttaca ctgtagggtg 180
 tgttttgaag aatctgacag agggccccctt gagtgttatg gataagcaca tatatgcagg 240
 acacactgtc aaaccatttc ccagcctgat tgaagctgga aagactggtt gtttcatcat 300
 ctcaaata tttgctaaag gtgttgaggc tggagtgggtg tacaccggca acaacaaaaa 360
 taaagttcca tgtgcatggc tactttgctt catcgaaaac aaggctaacy tgaggattta 420
 tggagagtgt ggaaacaaaa ataaattcat caatgtcgac t 461

<210> 19662
 <211> 386
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-006-Q1-K1-E1

<400> 19662

tttacttgct cttcttgaac atgccatgc tgctgtcaag ggtgttcagg atggatccca 60
 gaactatgag gcctacttat tattcccagt tcatttagaa ngaacattac atgatataac 120
 taaaaccatg cttgaaaaga aggaattctt cccaacaatt actgttctcc agatatttcg 180

ccagctttgt tctggattaa agcacatgca cagttttgat ccaccatatg cgcacaatgg 240
 ggtaaacca gataatgtcc tcataacaca caggaagcag tctcatctag caattntgat 300
 ggattttgag agtgctgggc caacaagaaa gactattaga tcacaaactg aagctttgca 360
 gttacaagaa tgggcttcag agcact 386

<210> 19663
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-E2

<400> 19663

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 agtgggcatc ccgacatctg accgactctc aaagttcaca gtcctaatcc tggtgcaagc 120
 gcacagtagc ggagcaagat gcggggagga gaccggccat cggcgtcgct ccagctactc 180
 tcgctgggcc tcgtgctcct ctacttcttc acctcaggca gcaccgttg tctcgtggag 240
 ggacagaaga cgttgtgcat cggaagccg tccgctcga acgagatcct ggcgcacaaac 300
 ctggactacg cgtgctccca ggtgagctgc gccgtgatcc aaaaaggcgg gccgtgctac 360
 taccgggaca ggcccgtgtt ccgcgccagc gtcgccatga acctctaata cgcctacagc 420
 ggcaggcacc cctggaa 437

<210> 19664
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-E6

<400> 19664

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 gtcagtgacc atgatcatct gcaagaagaa ccgcgcgag atctgcaaat acctcttaca 120
 tgaggggggtc ttgtacgcca agaaggacta catcctggcc aagcacccca agcttgatgt 180
 gcccaacttg gaggtgatta agtcatgca gagcttcaag tcgaaggagt atgtgagggg 240
 aacctttctca tggcagtact actactggta cctcaccaac gatggcattg agcaccttcg 300

cagcttcctc aacctgccat cagaggttgt gcctaatacc ctcaagaagt cttccaagcc 360
cccgtctcgc ccctt 375

<210> 19665
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-006-Q1-K1-E7

<400> 19665

atctcgttat gtatgttcag tccccagaaa caaaggatct aacagtttca ttaacaagct 60
ctggtggggtt gcaaaacttg gcttcagcta caataacagt ttctggcaca tcaaattgga 120
caaaagtgga gcagaagctg gttgctaaag gaaccaatag aacatcaagg cttcaaataa 180
caacgaacaa aaaaggagtt gtttggcttg atcaagtatc actcatgcct gaagacacat 240
acaagggaca tggtttccgc acagaactta tatccatgct tttggatttg aaaccacgat 300
tcttgagatt tcttggaggt tgtttttag aaggtgactg gctaagaaat gcattcagat 360
ggagagagtc aattgggtcaa tgggaagaga ggcctggaca cttcgngat gtttggcatt 420
actggactga tgatgggctt ggatattatg agttccttca g 461

<210> 19666
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-E8

<400> 19666

ctttgagctc agtagcaaac aagaagcagc aagatagtga tcctccatgg gaaacaccct 60
cgggtttggc gtaggtgtcg gcctcggcct cggcctcgcc gtcggcgccg ctgctctgat 120
ccaggctttt ggtccgaaaa ttgacgagga agtgggtggtt tctcagtatc aatgcaacac 180
cgaggacatt gacgagttgt ctgccgagga gctgcgcgat gcgatgagct atgtgatgca 240
caatccgatg ctgatccagg tgccggtggt aggaacaacg aagacattct ggcgattatc 300
tgaggaagcc actaggatca gcagaaaact ttcattgata ctgcgcaacc accactcagc 360
ctgcaagtac ctcgaagctc ctctgcaggt gtccaatgtc tggattggga gcactgggag 420

tgtcaagcta aggggggtca gtttactgg cagcggtttc tttag "

465

<210> 19667
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F2

<400> 19667

gcggagctgt acgaaacggc atctgggaga cgcaacacgcc cgctcgaagc ggccaagcct 60
cgaacgggggt gaaaggcata ctgtgagacc ccccgcgtag cttgatcttc gagatggagg 120
cggcgctagt ggagcggctg gaggccgcgg tggcgcggt cgaggccgtc gtggcctacg 180
gcgcctcgct cgcgtcggcg gcggcgcgcg acctcgacgc tctgaggcc cggatggatc 240
cagctatcgt ggctacgac gagttcgtcg cggaggccgt cggacggctc acggctgcgg 300
ccgaaaagat cggcggaag gtgcttgacg ccaccaaagt gctcgccgaa gcatttgccg 360
tcgacaaaga cctgctcgta caagccaagc agtccagaa accagcatca atggctgatg 420
cacatggctt ttttaagccc 440

<210> 19668
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F3

<400> 19668

acttgctctc ttgcgcttcc taggcgcttt tgcacacata gcgacggtag tgcaactccg 60
cgttcactcg gacacacaag ctcaactgcc tctcctgatc acgaaagctc actccaagcc 120
gccctctgc tattctacaa accatctact ccaaagtaga tatcaaccgc ttgagcactg 180
aacattacag cctgtacgtt atctccattt accagcactt catg 224

<210> 19669
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F4

<400> 19669

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acaccgttga actaaagggc aataatgtag atcttgcaga tgacgggtga gcacatgctg 120
agattattct tgggacagat gatctatggg atgagaatga tccatgggca aggtttgtga 180
tgaatgcttt gaaggcaaaa gtgttctacc gaagggatgt ccagtatatt gtcagggatg 240
ggaaagctat tataattaat gagttaaccg gccgagttga acccaagaga agatgggtctg 300
atggtatcca ccaagcagta taagcaaaat aaggcctaaa aatccatact cggttaattgt 360
ggctcaaadc acatatcagt cattgcttaa gctttatcct aaactttctg ggatgacagg 420
aactgctaatac acagaagaaa aggagttttc aaagatgttc aagatg 466

<210> 19670

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F5

<400> 19670

tcgccctcaa attcggtccg tccaggcaag gaagaaatcg agcagccaag gagaggagaa 60
gatggctcgt acgaagcaga cggcccgcga gtccaccgga ggcaaggccc cgcgcaagca 120
gctcgccacc aaggcggcga ggaagtcggc gccgacgacc ggcggtcgtga agaagcccca 180
caggtacagg cccggcaccg tggcgctgctg cgagatccgc aagtaccaga agagcacgga 240
gctgctcata cggaagttgc cctgtcagcg cctgggtccgt gagatcgctc aggacttcaa 300
gacggatctg 310

<210> 19671

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F6

<400> 19671

gtaaagccat cccattacc tgacagctgg aagttggctg aaattttcac aactggagtt 60
gtcgttggat atagtcata tggtaccata atgactatat ccaaggatcg tgtaaagcca 120

tccccattac ctgacagctg gaagttggct gaaattttca caactggagt tgtccttggt 180
 ggatatcagg caatgatgac tgtcatcttc ttttgggctg catacaagac aaactttttc 240
 ccaaaaatat ttcattgtga aagccttgag aagacagctc aagatgattt ccaaaaagctt 300
 gcatctgctg tttacctgca agtttagcacc atcagccagg ccctcatctt cgtgacaagg 360
 tccttgaact ggtcatttgt cgagcg 386

<210> 19672
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F7

<400> 19672

cggacgcgtg ggcgacgcgg cagcgaggag gaagcaaagg aaaggggata tgtcgaggcc 60
 gtccgacagg agcgacgcgc acctctccgc cgaggacgag gcggcgctgg aggccgaggt 120
 gcgggagtag tacgacgacg cggcgccaaa gcgccacacc aagccctccc gcagcgagca 180
 ctccgtcgtg tacgtcgacg cgctcgtccc ggacgtcggc ggcaactccc acccgagct 240
 ggacaagttc caagagctgg aagcacacac cgagaggttg gtgtacgatg gcgccaatgt 300
 gggagatgag ttcgtggaga ctgagtacta caaggacctc ggcggcgtct gcgagcagca 360
 ccacacgacc ggtacgggtt catcaagatg gacaaa 396

<210> 19673
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F8

<400> 19673

gagaagtctt taggtggggg caaagatggg gtcgctgaag ttgcaaaagc tccttgccctc 60
 gaggtacctc aagtgtggga aaggcaagg gtggcttgac ccaaatgaag ttagtgagat 120
 ctccatggca aactcccgcc agaatactct gaagttgggt aaggatgggt ttatcatcaa 180
 gaagcctcat aagatccact ctagatcccg tgcaagaagg gcacatgacg ccaagcaaat 240
 gggacgccac tcaagatatg gtaagcgtaa gggtagcaag gaggctaggc taccacacaa 300

ggttctgtgg a

311

<210> 19674

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-G1

<400> 19674

ctacggaaca tcgtacgctc aatgacgtct tgctacatcg caacaggctc tttctctcgc 60

tcggcgggtca ggttcatggc cagggtgccc acgccagtgt ccaacgtggt catgtccacc 120

gttggtgctcc tgaccttgct gatcatcacg ccgctgttca agtacacccc gaacgcgatc 180

ctgggctcga tcatcatctc tgccgtcata cgctctgctg actaccatgc ggcgatcctc 240

atctggaaaag tcgacaagat ggacttcgct gactgcatgg gggccttctt cggcgtcgat 300

ttcaagtctg tcgagatagg cctcttgatt gctgtgtcca tctcggttgc caaaatact 359

<210> 19675

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-D7

<400> 19675

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caagatcttc ggaatgccgg aatgctgctg agattactga caagcttgga ttacactccc 120

tgcgccatcg aactgggtac atccagagca cttgtgccac aactggcgag ggtctgtatg 180

aaggcctgga ctggctgtcc agcaacattg cgagcaaggc ttgaggccta ccttgaatat 240

caactgcgaa ctgactagga actccggatg tatcatggaa actcaagaca gaatcgcagt 300

tgcaatctga tagatgtctt ctaccggcac tatatatgan atactgttag atgtgtaatg 360

atggtactgt tcaacgetta ttacgtact atactgttgg atgttctttg gacctgttt 419

<210> 19676

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-B6

<400> 19676

ctctcgtgga agagcagagg cagcaaggac ctgctcttcc gagtctgcat cgtgtgcgcg 60

tttggcagcg cgctttttcac caatgacaca tgctgtgttg tcttcaccga gttcactctc 120

aaggttgcta ggcaaaacaa cctgccacca cagcctttcc ttctggccct tgccactagt 180

tccaacatcg gctctgctgc cagcccgatc ggcaaccctc agaaccttgt catagctgtc 240

gagagtggga tctcatttgg ccagttcttg ctgggagttt tcccagctat gatcgttggg 300

gttctcacia acgctgctat cctccttttg tacttctgga aatacttgtc ggtggagaag 360

gatcaggagg gtgggcagcc cacaggacca gaggtggttg ccgacgatga ggttacttcc 420

catcggttca caccggctag aatgtcacat gtttcttctc tgaat 465

<210> 19677

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-B7

<400> 19677

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atcgggtcaat cctcgccatt cttttcaagg gattgatcta aatctatctc caagagagtt 120

tcccggagaa tcacatcttg ctgaatcaca agtttcaact gatagcgtat caactccac 180

tggaagagct ggaagaacta tttcaggaag gcgtgaaata caacggtaca ttcagagttt 240

gttcagacca agtctaccta gtagaccaga cacgtaccac aatattgcgc agaacagtgg 300

tggtgtatca aganatgaac cgaaccgctg gaactttcct ttttcatcag aagcatacac 360

atcacagaat ctgcctgatg 380

<210> 19678

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-C1

<400> 19678

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tcaccaggag caaggggtca tcgtcctcga gctctgcgca gcgggcagca gctgccgtcc 120

tgctcgtggc ggtgtccgta ctggagggtg gctcagcagc ggtgtgcgac atgagcaacg 180

agcagttcat gtcgtgccag cccgcagcgg tcaagacgac ggacccgacg gacgcgccgt 240

tgcaggcgtg ctgcaacgcg cttgcagcgg cggaacctaa gtgcctgtgc ggctacaaga 300

actcgacggg gatgggcgta tacaacatag accacaagcg cgccatggag ctttc 355

<210> 19679

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-C2

<400> 19679

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cctagagctc tcacactttc acatctgcct ctttctctcg cgtgtccgtc ctgtcgtacc 120

gcttccctat gtcgacatat caacgaccat tcatgtcctg ccacctctt ctccaatacg 180

actgaccctt ctgccgtcc ttctcatgcg tgctgcgact ctctgacttt gtctaacctc 240

aagttcctgt tcggctacaa taactctccc tgtatgggcg tctacaacat cgacccttat 300

cgctccatgt aactttctgc caagttctgc cttatcactc 340

<210> 19680

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-C3

<400> 19680

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attggtgcag caggttgaat atattgggtc ctgattattg tgcctcgtca tggattttatt 120

gcgttcattg aaccagaaaa ttgcatcgca ctgtctacat ttgtattctt gtttaccaag 180

atatcttcaa tgggtgatat tgatgacaag agagatctca ctctgaggt acacaagatc 240

<210> 19683
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-C7

<400> 19683

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gggtgttcagg aatgaaccat tagatttcct gtgctaaaat gaggattgat cataagacta 120
atgacgatca agactatcaa ggcccctaca aacaaagctc atgggaaatt agaaagtga 180
atgaaatacc atgttgaaaa cagggccaaa gtagctagca attcaaagag gcaaaatgct 240
gcaaaatata atgcttcatg aggtcagtaa atacatattt ggtaattcca tgctaataca 300
ctgatgcttt aagatgcctg agacatctat cttctttgtt agttgttttc ggtgttgtca 360
aaatctcatg tgccacaatg gatgaaagaa caacatg 397

<210> 19684
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-C8

<400> 19684

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gccggttaaa ctttccccac ttgttgctgg cttcgaatc tgcggtttgt tcgagcttgt 120
aaggatctct ctttcttcac tctagcaagg aagcgaagaa cagggaagca aggacatgga 180
tgctttcagt gcagtgatgg acaaggtaaa gagccacca gaaatgatgg agaaggtcag 240
tgcagtgatg gacaaggatga agaagagcca ccagaagcg gtggaaaagg tcaaggacga 300
ggtgaagatc cttgctgatg ctctccatct gcgtagacat ggatccaaag ataaagaacc 360
tgagtctgaa gagaaggccg tagaaggcga ggcagcgcat agcgtcgagg aggaggaagg 420
tacctctgct gacaagactg cagaacctaa tgtgttga 459

<210> 19685
<211> 395

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-006-Q1-K1-D1

 <400> 19685

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 tgttcaggaa tgaaccatta gatttctctgt gctaaaatga ggattgatca taagactaat 120
 gacgatcaag actatcaagg cccctacaaa caaagctcat gggaaattag aaagtgaat 180
 gaaataccat gttgaaaaca gggccaaagt agctagcaat tcaaagaggc aaaatgctgc 240
 aaaatataat gcttcatgag gtcagtaaata acatatttgg taattccatg ctaatacact 300
 gatgctttta gatgcctgag acatctatct tctttgntag ttgttttcgg tgttgtcaaa 360
 atctcangtg ccacaatgga tgaaagaaca acatg 395

<210> 19686
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-D3

 <400> 19686

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 gatggtgata tgggtgaagc tgaacctgag gaggaaaatg agcccagctt aaacatcaag 120
 cctgattatc ctctctctcc tgaagaacct aaaggaagca gggagcttct ctgcaggggt 180
 gcgattcggc taccgaacaa tcaaaggatc caaagaaact tccttcacac agatcctatc 240
 aagctcctgt ggtcattctg cgctcctcag gttgaggacg gcgagaagaa ggctttccac 300
 ttcgtacagg ccattcctgg agcatcccag aagctgcagt ttggaagcga cctaactttc 360
 aaggaagcgg tgcttgccaa ctcgatgac aacctcttgt gggactgata cgct 414

<210> 19687
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-D4

<400> 19687

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ggggggggctc tgggcgcgcc tgctcttcgt ggcggggcgc ggcgcgggac ccactcgcgt 120
ggcgacgcgt cgacctccgc gactgggtcg ccctcacctc cggccggcgc gccgcgagac 180
ctggacactc cagctctcgc gtatccgttc acgccgcgt cgtcggcac ctggaggtcg 240
ccgccaagtt ggccgaaggc cggatcgagg ccgtgttgct ccccgagttt gctgatgaag 300
accatctctt gttcctcgt gagaggtgcc caaacctgca ctatttcagc cttactagca 360
cctgtatgac ttacgatcag ttctgcaagg cgaaagtggt acttcaatcg cttaaaggca 420
tggcaatgga tgagagtctg actaactatg atgt 454

<210> 19688

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-D5

<400> 19688

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tgttcaggaa tcatccatta gatttgctgg gctaaaatga tgattgatca taataactaat 120
gactatcaat actatcaaag ccctacaaa caaagctcat gggaaattac aaagtgaaat 180
taaataccat gttgaaaaca ggtccaaaat atctagcaat tcaaagaagc aaaatgctgc 240
aaaatataat gttcatgat gtcaataaat acatatttgg taattccatg ctaatacact 300
gatgcttta 309

<210> 19689

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-B4

<400> 19689

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cctggagctt ctggccagtc gtggcctctc cctcgctgcg gcctgctggt cttggccctt 120

gcactggcga cgaccgccgc ggtgggcagc ggcagctgt cgtcggagag ctactacgac 180
gcgtcctgcc ccgccgtcct tctcaccatc aggaccgccg tctcgacggc cgtgctgctg 240
gagccccgca tggggggcctc ccttctccgc ctccacttcc acgactgttt cgtgcatggg 300
tgcgacgcgt cgggtgctgt agacgacact gcgagcttca ccggcgagaa gggggcgggg 360
ccgaacgcgg tgctcgctccg gggcttcgac gtgatcgaca acatcaagat gctgctggag 420
ctgctgtgcc cgc 433

<210> 19690

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-G6

<400> 19690

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caagtaagca actgcagtga cgttgggttc ggctgcaccc aaactacatg actgaagaaa 120
cttgtggcct gtgtaacgcg aatccatcag aacgccaaag ttatggcttc tggttgtggc 180
aaattatggt tcctccctgt tcggttgagt ggttgcattc tggaggtatc ttgttctgga 240
ctcaggctaa tgattgtgcg tgcgactgtt tcagagtcac ttcaaagggt atccacttcc 300
gttggagttg atttcataac taaaaaaaaa aatttaataa tataaatcat aaaaaaaaaa 360
ggcgg 365

<210> 19691

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-G7

<400> 19691

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ctgggggtatg tctcctgtgt catcagatta gacagctcac tcagtgcatt gcgataccac 120
ttatgaatac tgcactctgt gctcggacta caattcacac tgctaacggg ggactactct 180
actgctctcc cagaactgcg aagacgctat tggctagggc tataagtac 229

<210> 19692
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-G8

 <400> 19692

 gtgaaagaag gacgaggatc agcaagaggc ttaagaagct tcaagacctc gtgccgaaca 60
 tgtgcaagca tacgaatacg tcggacatgt tggaccttgc tgtggattac atcaaagagc 120
 tcaaggacca agtcgagaag cttaaacacg accaagcaaa ctgctgttgc ctaggcaaca 180
 agagctgctg ctgatgcttg agaggcagac tgaagaaggt ttttatgccg taacaatgtg 240
 actgttaaac cagagctggt gctttaggag accatgccgt 280

<210> 19693
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-H1

 <400> 19693

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 ttattccaac atatgcgact ccagtgcatt tattaagggc ccttcgataa cacctcataa 120
 atattgcatt actcaactta caatctaaat taaaactat aatcctatac taactcatca 180
 atttcaattt ttaacaaaaa ttatccacc aaatgttcat tataacacat tttaaatttg 240
 ctttgatata ttaaacattt catagatcc 269

<210> 19694
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-H3

 <400> 19694

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 tgggagaggc gtggccgtcg atcgccaagg acgtcaccga gttgatcggg aacactccgc 120

tggtgtacct caacaagggt accgatgggt gcgtcggccg cgtcgacgcc aagctcgagt 180
ccatggagcc ctgctccagc gtcaaggata ggattggcta cagcatgatc acggacgcag 240
aggagaaagg gctgattact tcaagcgtga gtgttctgat tgaaccaact agcggcaaca 300
caggcattgg actggccttt at 322

<210> 19695
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-H4

<400> 19695

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tttactggta tctgttgact gcagtctacg aaccgaacgt gggtttaaata cttttttgaa 120
ctcatcccaa ctaacacagt aactctaaag caatcggaat ggataccact cctagtcatc 180
agtgtacttt tactacattc ggatgggact gacagcattc ccacac 226

<210> 19696
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-H5

<400> 19696

gagagaagtc agctgaccct gatatccagt taatatgtga tgattccaac atattgagag 60
tggagtgtct ttatcaaggg cccttctgaa acaccttatg aaggtggtgt gtttcaactt 120
gcgttcgcaa ttccagagca gtatcctcta ctgcctcctc aagttcgatt ttttaacaaa 180
attttccacc caaatgtgca tttcaagaca ggtgaaatgt gtcttgatat attgaagaat 240
gcatggagcc ctgcatggac ccttcagtct gttttagtag cgataattgc tctgatggcc 300
catcctgaac cagacagccc acttaactgt gattcaggca atctcctgcg gtcgggtgac 360
atcagaggct atcaatcaat ggcccgcatt ta 392

<210> 19697
<211> 432
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-005-Q1-K1-H7

<400> 19697

agcgaagcag agcactggca tgagcatgga ccgcatggcg cggcggttccg tgtcgcgtgc 60

tcctggctct ggctctgctg gccagcgcag cgtcggcaga ctctggctg cagcagaagt 120

tcacgacgga gggcaacgtg cgcgcggact acaacgcgca tgggcagcaa gtgacgtctc 180

tgatcctgac gcagcagttc ggcgggcgct tcagctcgcg gcatatgtac ctgtacgggg 240

agttcagcat ccagatgagg ctgatectcg gcaactgcgc gggcacctg accncttct 300

acctgtcgtc aggcgacgag gcccgggcac gacgagatcg acatggagtt catgggcaac 360

gccagcgngc agcccatggt gctgaacacc aacgtgtggg ccaacggcga actgcaagaa 420

ggagcaccag tt 432

<210> 19698

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-H8

<400> 19698

ctcagcacc tccgtcgtc gtctagtatg cttcttgct tccgctgct tcctccgccg 60

cccgcctccg gggcgcccg ttctgtctca tcctctctga tctgcagggt ctgacgaacc 120

gaaccgttgg ggtttcaaatt cttcttttgc agactccgat cccaactcaa aacacagaga 180

actctgaaag ctaatcgga atggataacc acatccatag tcaggcagct gctaacctta 240

ctaccagttc 250

<210> 19699

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-A2

<400> 19699

aacgcagaag ctgcactgca tacatcgagc taactatctg cagcgatgtc tcgctcctgc 60
 tgccggcgccg tgggggtgct tctcgctgtc gccgcgacag ccagcgccac cgcgccggca 120
 tggctgcacg aggaggccat ggccacgggc ccgctgggtc cagaggggtg aaggggtggcg 180
 ccctccgct ccacctgggc tgccgacaag gcgtcgccg cgaggccgag cggcggtcatg 240
 gccacgcatg gcgacgacca gagctcgctg ggcggcagtg gcagcagcgg tgagcacggc 300
 aaggaggatg gcgagaagca gggcaagagc tgcctcacca aggangagtg ccacaagaag 360
 aagatgatct gcggcaaggg gctgcacgct ctcggcgcac agc 403

<210> 19700
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-A3

<400> 19700

caggcttacg ggaatgcttg tttggagtat attaaataca ttgttttccc ttggtttgga 60
 agatttgagg tcagccgtaa ggggagcaat ggtggtaaca agacatttac atgcatgaat 120
 gaactaattt ctgattacga gactgggtgct ttgcatcctg ccgatgtcaa acctgcactg 180
 gcaaaaagcaa taaatgaaat tttgcagcct gtctcgatgc atttcaacaa caacaacgaa 240
 gccaaagtgc ttcttaacac tgtcaagaag tacagagtaa ccaattgagg agtgggaagct 300
 gtccatcttt agggcatggt tacattaggg tggatatcgc cgtttgaaat tcttgatgc 360
 tattctgtta ctagttgcat aggtagctca aaagtttcat gtttctagat atataaaaag 420
 aatactttac ttgttgacta cttgatgtgc 450

<210> 19701
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-A4

<400> 19701

atattaaata catttatctc cattgatttg taatatttca tgtcatgctg aatgagaaca 60
 attgtcgtgg cattacattt acatgcatga atgaactaat ttctgattac tagactgtta 120

ctttgcattc taccaatgtc aaacctgcac tgccaaaagc attaaataat atttttcact 180
ctcttcataa tcatttcaac tacatcatct atacctaagt tcttcttaac actactaata 240
attacataat aaccaattga ctacttgaac ctttccatct ttaaggcatg ttacattat 300
ggtgaatatc gtcacttcaa attcttgtat actattctga tacta 345

<210> 19702

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-A5

<400> 19702

tccgactagt tctagagatc atatcgcgcc caccgggtcaa gatatttatc tacgatgggt 60
gtagtcggcc taatacagct gcacagctga gactccacta cttctaagat gacgactgct 120
tgccagcacc aaatgatgaa ctctatgata agtggctcct gcaatttatc agcttcatga 180
tcatccacaa tcctgggtcga ctacgacata catctactag ttgaaaacca ttagtgtact 240
catcatgtgt aattttgtgt tacgactctg ggaaaatcat aacgacaacg ttataaaaat 300
taaa 304

<210> 19703

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-A6

<400> 19703

accgaaacct gcagtcgggt catctcgctc acgaaacgta cggacttcgg gcatggggcc 60
caaggccagc ggcaccgcac caccacgccc gtcggcgaca tgaatccgcc cgcagcagcc 120
gcgtccaccg gcgcaggagg ccacgcccgc gcgcctgcgg cagcccggga gtacgtgcac 180
tacccgaggc tctcgccaga ggaggtggcc ccgccccgc ccccgctta tcacgccgtc 240
accgccgcgc cgtccgccta cggaggcaac cctacatct actccccgc cggcggcgcc 300
gccacctccc cgaagaatac gatggactcc gtgaaggacg tgctcggcaa gatggggaag 360
aggtttggcg aggcggcccc caagaccgag accatcaccg gcaatttctg gcagcacttg 420

aaaactggac caagcattac tgatgcagca atgagcagga tctcac

466

<210> 19704

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-A7

<400> 19704

atctcttcca aatcccacca gcaaatcccc aattcctccg agttcgagcg accatgtcgg 60

ngcggggcaa gggcggaag ggtctgggca aaggcggcgc caagcgtcac cgcaaggttc 120

tccgcgacaa catccagggc atcacgaagc cggcgatccg gaggctggcg aggaggggcg 180

gcgatgaagcg catctcgggg ctcattctacg aggagaccgc cggcgtgctc aagatcttcc 240

tcgagaacgt catccgcgac gccgtcacct acacggagca cgcccgccgc aagaccgtca 300

ccgtcatgga cgtcgtctac gccctcaaag cgccaggtc 339

<210> 19705

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-B1

<400> 19705

ctaatactga catcttgctg gtgcgtatgg tactttgctt cgtggaacat gaatttcacg 60

tgctctgacg gtattacaat gccttatgtg acactcttct atcttttact aaacatccga 120

atctatcctt cgagtatatt taatcgcat aattctattt gaaatgtatt tcgcaacaat 180

gtccaattta ctcgaa 196

<210> 19706

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-B2

<400> 19706

tttattgtca gattcatcac tctcaagatg acaatatcat tgctgcacaa gaaattccat 60

aggtttcttg tggaaatggg ccacctcaat atgactctaa tgtaccttca tgcttctagc 120
 ctgctcgtag ttcaactcat atgccatttt gtcaaactga agaagcccat aaagagatct 180
 gcgctgctac aattattcat acagcattta tagctttcct ggcaaggaga gcccgccgag 240
 ctttaaaagg gttgggtagg cttcaagccc ttgtaagagg tcatatagta agaaagcgag 300
 cagctactac actccgttgt atgcaagctt ttgtcacggg tcatgcccgt gttatagcaa 360
 agcgaattca catggctttg gaaaaccaga ctgatcggca aaatacttca ccagagcaca 420
 cgatc 425

<210> 19707
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-006-Q1-K1-B3
 <400> 19707

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 agagtgagca ggctaagaac ttgcaggagc agcatgaatg gcggcgactc gtcgcctatc 120
 ttgctttctc ctgcgcgtgc ttctggcagg agtggccgct gccaccgcct tcgacgaagc 180
 ggctgctgcc ggcttcgggc ttggccacgg ctgcggtttc gcgcgcaagc atggacgtgc 240
 tgccgatgag atgccccagc cggagccaca acctaaaact aagccggagc cccatatgca 300
 gacactgccc cagccagaac ctaaaccgaa acctatgcca catccagagc caaagcctg 359

<210> 19708
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-005-Q1-K1-G5
 <400> 19708

gttagggagg gagagaggga agaggagcgc aaggcggggg ggtgcgcggg gcggcgctc 60
 gcgtctgcgg cggcgctcgg cttccggcga gccaccgcg tcaggtttcg acgttcaaca 120
 agcggagtcc tgggaatgca tataaccaga accccacctt ggcaactgggt aatatctgcc 180
 actctcttat gctcgccagt ccatcataaa cgcagtcgct ggttgcattc gatgcaagaa 240

catcctgttc ctcagacact aactggacat agccctgatt tcgttcatcg tatcttgggtg 300
 cactctcata atctcggttcc ttctcctact gactggggcc gacctgaacg accagagagg 360
 cgaggagaac atgtacttcg gtagcttctg cta 393

<210> 19709
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-005-Q1-K1-D2
 <400> 19709

ccgggtcggc cgacgcgtgc gagatagtgg atgctaaaaa ttacaccttt tttactggca 60
 agtgggaggc atcacggcag gattgtataa tacattggtc caagttgcca tcatttatgc 120
 ctcttctgag tcagattgag acagacgggtg gcaagtctct ggacttttagc aactatcctt 180
 acatatttat gagatggaaa gaacagtatt ttgtcaatgt tggagttgac tgtgggttaa 240
 ccatcgctgg tttctactac gtctgctttt cttgtagcga tggctccatc agtggatctt 300
 attatgatcc aaatagcaat ccatttcaga agct 334

<210> 19710
 <211> 347
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-005-Q1-K1-D3
 <400> 19710

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 cagctagcaa ctctttctct cctgcaataa tgaccgctgg ctctcctcc tcccagccgc 120
 agctggtcgc ggcggcggcg gtcctggcag cggcgctgct gctgctggcg gcgggggccg 180
 ggacggcgtc tgcggcgggtg agctgcccgc aggtgacgtc gtctgtggcg cctgcctcgc 240
 ggtacgcgat gggcagcgcg gcgtcgccct ccgtggcgtg ctgcagcggg gtgcgctcgc 300
 tcaacagccg cgcgtcgtct gcggcggacc ggcaggccac ctgcaac 347

<210> 19711
 <211> 199

654763 5446260

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-D4

<400> 19711

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ggcgaagctg cggctgcatg gacgtcgggt cactagcccc aaaacggcag gacgtatcac 120
tgtcacggtc cctcctgctc gagcgcagca agagcagcac gtgaaggacg atgaggccga 180
ggctgcgagc gtgcacccg 199

<210> 19712
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-D5

<400> 19712

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caccaagaag cggctggacg tctacacggg cttcgagggc gtgtcgacgc tggaggacgt 120
gggcggcggc gtgggcgcca cgctgcacgc catcacgtgc cgccaccgc acatctccg 180
ggccaacttc gacctgcgc acgtcatctc cgaggcgccg ccgttccccg gcgtgcgcca 240
cgtgggcggg gacatgttcg cgcttcgtgcc cgtcggcgac gccatcctca tgaagtggat 300
cctccacgac tggagcgacg cgactgcgc cacgtgctc aagaactgct acgacgcgt 360
gccgaaaaat ggcaaggcca tcgtcgtcga gtgcgtgctg ccgtcaaca cggagg 416

<210> 19713
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-005-Q1-K1-D6

<400> 19713

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ccggccgagc gagagcgagg gagaggcatg gctgctccga agctcgcgac gctggcgctg 120

gccgtgctcc tggcggcgac cgtggtggct cccccggcgc cggtgcgcg gcgatgtcg 180
 tgttccaccg tgtacagcac gctgatgccg tgccctgccg tcgtccagat gggcggggcc 240
 atgccgnccc agccgtgctg cggcggcatc cgcagcctgc tgcagcaggc caacaacacc 300
 cncgaccggc gcaccatctg cggctgcctc aagaacg 337

<210> 19714

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-005-Q1-K1-D8

<400> 19714

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 atgagtgtgt aaaagacact ctgctggacc tctgttgac ccttggattt ccaactccga 120
 aagcaaacat tagaaaggaa gatattgtgt caaagctgtt ggacttcatt gctgaacctc 180
 actctgcagc tgaatcttgg ggctctgatg atcagggatc aaattctaaa aaacgcaaga 240
 gaggaggtga aagtgcaagt aagacgcctg atggcacacc tagtaggtcg aggaagaaat 300
 ttgtcgatga cggctacttct agtaaaaggc agaataaagc gctccagtat gatactgang 360
 aagatgaatc catgaagtct gacagtgatg aaaacataga tgaagattca gatgaagctg 420
 ctgacaaaaca ggaagttgac tatggatct 449

<210> 19715

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E2

<400> 19715

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 aagggacctc ggttaaagaa tcaaaacat cagctggtga agatgattcg tcaaaaatat 120
 gttataaatg caaaaaggct ggacatcttt ctgcgattg cccagaaaagc acatctgagg 180
 tggaccgaaa tgatggcagt attagtagaa gcagagacga tacgggtacc aatactgctc 240
 ctgctggtgg caacagtcct atggacgaag acgatgttca agaaattggg gatgaaaaga 300

aagaaaagtt gattgacttg gactacttaa ctggaaaccc cactaccaaa tgatattttg 360
ctatatgctg tacctgtgtg tgccc 385

<210> 19716
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E3

<400> 19716

ctcgtgcgaa tcagcccact ctgataaccc accaacgcca tgacaccttg acagacgaat 60
cccatcacca acgcccacgt gccttagccc gtaagcataa ctcaaaatca tccataaaca 120
aaccataatc gattatacca tgaccecaaca tgacatcctc tcgcactcag actaagtcac 180
ggacatacgc gctcccatca ttatcgtgaa tgcagctcct gacaggcaca tagttataga 240
cttatcaatc aacactgtag gtaacatcat caagcata 278

<210> 19717
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E4

<400> 19717

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ctttttctgc gtctcttcgt cttatacaca cttcaccaac accaccacca ccaactctttc 120
tgcttcccca tctcttttcc ccattcctca tcctatatcc gtgtacagct ccatctttta 180
ctcttactac tggtctactc attgcattct cttaagtac cacttttctc acgctccggt 240
ct 242

<210> 19718
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E5

<400> 19718

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tcagggatga gccaggaaat ctatgtccaa cttactccag acgacaaaga aatttttagat 120
tatatcatca cagaagctga cagccacttg cactctgact aagtccctgga tcaatccgtt 180
gccattatta ccgagaatga aggtcttgac aaggacacag ctgcagaact cacaatctac 240
actgtaggta acgtttttcaa gaatc 265

<210> 19719
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E6

<400> 19719

gtggaatcga aatcattttg cttctgcttt ctttgtcttc tttccatggc ggagcggcag 60
ctggtattgt cctgggtggaa atgtcagtgc agcctctttt tgcttgtctt gttttgcaat 120
tgtttggctg gcctccactt tttgtccgat gtcgggggcg aacagggatt catcatcata 180
tcgtgcgaat cttgctctgg atgcacaaga aaattctctc ttctactgct ctttcccccc 240
ccccacaagg cctattaaca aacacgatgc ctaagctcat gatcaaaatc tgatgggcat 300
gcctgaccta tctgcccggg catgtcgtga tccaccttgc aaaat 345

<210> 19720
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E8

<400> 19720

gtggacgaca cgcccatccg ggtgtacgag aacgccacgc tgcaccaagg ccacggccac 60
ggcgaccacc ggcacggcgg cgcgggcgcg gaggccaacg gcaccaaacac caccaccacc 120
acgctggctg ctgccccggc gccgttcccc gggcgcgagc cgatggccgt gtacagctcc 180
atctggaacg cggacgactg ggcgacgcag ggcgggcgcg tgaagacgga ctggtcgcac 240
gcgccgttcg aggccacgtt ccgggaggtg cgcgtggacg ggtgcgcctg ggcgggcaac 300
gccacggacg gcgacgccgc ggaggcgcgc cgggtgcagcg agtcctcgtg gtgcaaggag 360

ggccgctact ggtggaagga gaaggagatg tcggagctga gcggtcacca gagccaccag 420
ctcgtgtggg cgcgcgcgca 440

<210> 19721
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-F1

<400> 19721

atagctggaa gtgaatttat ggagagcgtt ttcttccatg ttaaattcatg gttaccggca 60
agagctattg gggtagagtg tttggtatca aaaggaaaca ttgatccaag tggagaaatc 120
atggttttgg atagattctg cccgtggaaa cttcatttat ttgagcttga agaggagctg 180
aagactgata ctctgaccaa gtatgtgctg tatcaggatg agaggatcaa gagttgtcga 240
gtccaagcag tcgcagttgc tcctgacagg ttcgagagcc taaaggctct tgcagataag 300
tcgaggggca tga 313

<210> 19722
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-F2

<400> 19722

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gccggccggc tagtacgggt actccgagac cgaggtggtc accgccaccg gcgagggcga 120
gtacgagagg tacaagaagg aggagaagga gcacaagcac aagcagcacc tcggcgaggc 180
cggcgccatc gccgacggcg ccttcgcact ctacgagaag cacgaggcga agaaggaccc 240
cgagcacgcg cacaggcaca agatcacgga agaggtcgct gccgcagcg cgcgcggcgc 300
cggcggctac gtattccacg agcaccacga gaagaagaag gaccacaagg a 351

<210> 19723
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-F4

<400> 19723

caacatgcac cacgtacccg ttcacggcga ttttctcat cttctacacc acggtgccgg 60
cgctggcggt ctgtacgggg cacttcatcg tgcagcggcc caccaccatg ttctacgtgt 120
acctggccat cgtgctgggc acgctgctga tcttggccgt cctggagggtg aagtgggcgg 180
gcgtgaccgt gttcgagtgg ttccggaacg ggcagttctg gatgacggcc agctgctccg 240
cgtacctggc cgccgtgtgc caagtgctgg tgaagggtgt ggtccggcgg 290

<210> 19724

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-005-Q1-K1-G1

<400> 19724

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gcatcttgcg agatctgaga ggttcaggta tgacagagca acagagacag aaagtcttga 120
ttcatgtgtt agaagaagct ggatacacia aagattcaca ttttactc ccagacttta 180
tgaagattat tggcaattct gagctcaaga tggagggtga agttcctatt gactaanaac 240
ctaacaagca tcatctagtt gcttcaagcc tgtatcttca tttgtgttaa attaagtaga 300
tggtatattt atatncttgc aactcaaac atgatcagag atgtaattaa ggaaacatat 360
gtacctgcta tttggagggt tagttggctc gcacttatac tcaacgc 407

<210> 19725

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-C8

<400> 19725

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atgggataag acattgggtcc aagttcccat ctttatgcc ttttctgagt cagattgaga 120

cagacgggtgg caagtctctg gacttttagca actatcctta catatttatg agatggaaaag 180
 aacagtatatt tgtcaatggt ggagttgact gtgggttaac catcgctggt ttctactacg 240
 tctgcttttc ttgtagcgat ggctccatca atggatttta ttatgatcca aa 292

<210> 19726
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-G4

<400> 19726

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 cgcagtgcag tgcttgccgg ctgcgttca gcggttggtc gcactgcgca gtgcgtcca 120
 tgccttagtg cctgccgagg tgccgccctc ccacctccag cgaatggcga cgggccaggg 180
 ctctaggcgt ccagccctcc agctccatcc gttggactcc tgctcgtcat ccactcgagc 240
 tcagctactc ggcttactgg ttccctctcg gcggctgttc tagtgctcct agcctcctgc 300
 tcgtcggtcg gtccctggccc ctgctgctcg gctgctcact tgctcgttgg gcctgctgc 360
 tcgggttcca 370

<210> 19727
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-A4

<400> 19727

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 acatccgtaa cattgtccgg tatttttagga tcatcataaa ttccattgca tttgcggttt 120
 gctattccaa caaggctctc ttgtctatcc tgtacttcat cagctttgtc cttgatgggtg 180
 tggatgggtg gtttgcaagg aagttcaatc aagcatcaac ctttggagct gtgtaggaca 240
 tggttacaga tagggtttagc actgcttggt tggtggccct tctctcccag ttttacagac 300
 ctggttttagt cttcttgata ttgcttgaat tggatatga 339

<210> 19728

<211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-A5

 <400> 19728

 aatctataga tctttgttga tcacagaata atgatcatga agtttctaac gtggcggagt 60
 tgtgggatga atcgtctgaa cactcttcat accaacaatgg tgttcacatt ggaaactgga 120
 tcaagtctta ctttggatca taactatgaa gcttacaatg acatcaactt catcttcgct 180
 aatgttcatt aacactatca aaacttcgat ccacgttgat gatgagagct ctagcgacat 240
 gtacactgca dagtcacaag acagccgctc catagtgacg aaggctgtgg atattgaa 298

<210> 19729
 <211> 169
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-A6

 <400> 19729

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 caagaactca tctctacgtg tcaagcctaa tcttcagaaa aaccctcaa ctaatccttg 120
 tatgcctact tatccgaaga atccttcaag accttgcatt tcatttacc 169

<210> 19730
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-A8

 <400> 19730

 cagtaagcca tcgctcacac agtcagaccg acgcactcac taacacacac acacagacgg 60
 acaggcaact tctccataca cgccgtagcc atggcttccg ctgcgcagaa gaagatggca 120
 attgtttgct tgatgctgct ggccgtcgct ggccaaatcg tcgctgatgc tgatgttacc 180
 gtagaacatc ccagccgcat ctgcaccgaa acggtgattg atcctcggtg tcccaacaac 240
 gagtgcattc gctccaagaa ctgcgcctgt gccggtaagt gcatccttga gtcggctgat 300

gctgtccaga cctgctttgt cgactgcgtc ctcaagaacg actgcatctg cagcagc 357

<210> 19731
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-005-Q1-K1-B1

<400> 19731

agcacgtcga cttctcagaa gactactcac ctaagctcaa cgccgacgac gcctatgcca 60
cttggtaaat ctggggacct gacgggaatt ctattggtcc tcctatggga aatccatgga 120
tctacatgta ccctaaaggc ctaaaggatc tccttatgat catgaagaac aaatacggaa 180
acccgcctat ctatatcacc gagaacggaa tcggggacgt tgacacaaaag gataatcctc 240
tatccatgca agatgcgttg gacgactaca agaagctaga ttacctncag cgccacatct 300
cagttatcaa agaatcaata gacttggggg cggacgtgcy cggtcacttc acatgggtctc 360
tgttggacaa ctttcagtgg tctagtggct aca 393

<210> 19732
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B2

<400> 19732

catacgtcaa acaagttgtg ctttcttccg tttgtctaca aaatttactc tccagggaga 60
gtagagaatt tatgcaaatt gcagctaacg acaaattaca gtagctgaaa atattttctc 120
aacagattct taattccata aaccgatgta aagatcccca atggtataac ctacatcgct 180
actttgcaga agctagaatc agaaagcgcg ccccataagc aattcaaaga tacggcaata 240
gcatagattc aaaagcaaatt gagtcttgtt caacgtacaa ctgtgagcac tcatttgttc 300
tctaaatata tctttttaaac cacaaatgcc cgtcattt 338

<210> 19733
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B3

<400> 19733

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tttgatcaag tgggtggcttc tattggggga aacactgctg gtccaggtga tgctgttctc 120
aatgtataca taaatcatga caagaaattt gcttttgtgg agatgagatc tgtttaggaa 180
acaagcaatg caatggccct ggatggcatt atgttcgaag gttcacccgt gaaagttaga 240
aagccaacag actacaaccc tttccttgca gccgccctgg gcccaagcca gccaaagcccc 300
aatctgaatc ttgctgcaat tggcctaaca tcaagatcta atggaggact agaaggtcca 360
gaccgtatctt ttgtgggtgg ccttccttat tactttact 399

<210> 19734

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B4

<400> 19734

cagcattgcg attctgcata caactctgac ttctttacgt atgggaaaca atcttacttc 60
cagtgctaatt gcgtaattca tgcaaattgc atctaactac ccatgataaa gacctaaact 120
tatatgctca tgcaactaat tgggttaaaca accactgttt atatcacaag attcataacc 180
aagatcacta ctttatgaag aatgaatcac aaagcagcgc tccaaaacca cgtatgataa 240
acggaacttt cactgatcca gaagttcata ctgcacgtat aaaat 285

<210> 19735

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B5

<400> 19735

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agcgacatcg tcgggctacc tgtatccctg ctcttctga aggcagatgc gaccgtatct 120
gttgtgcact cgcggacccc tgatcctgaa agcattgtac gcgaagctga catagtcac 180

gcggcagctg ggcaggctat gatggtatgt atgcagctat gccgacagat cctcacagta 240
 aggtgcagca tcctgcaacc cgttcaacgc tgctcactga gtccgtcgat gtgctctttt 300
 cttgctcgtc agatcaaagg tgactggatc aagccagggtg ctgcggtcat cgatgtcggg 360
 acgaactccg tcgacgaccc 380

<210> 19736
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B6

<400> 19736

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 ggagtgaatt gatgcgaatt gcagctaacg acaaaagaga ggagctgaaa atattttctc 120
 aagagattgt taggttcggg aaccgctgta aagatcccca gtggcataac ctggatcgct 180
 actttgtgaa gttagaatca gaaagtgcgc cccagaagca gttgaaagaa acggcaatag 240
 cagagatgca aaagttaatg agtcttggtc aacgtacaac tgtgagcact ctgttggttct 300
 ctaaagatat cttctaagcc acaaagccc gtcatttcgt tttttttttt ggctttcttt 360
 tttcaagatt tgtatcatga gctgcatgca ttagacagat ttgagcaaga gtactgctct 420
 aagataaacg gaaaggggtca ca 442

<210> 19737
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B7

<400> 19737

tcgtacccac acatgcaccc agagcacgcg cacaggcact acatcactta ggaggtcact 60
 gccgccacta ggggtgcccgg cgacagctac ctattccacg agcaccacaa gaagaagaag 120
 gaccacacgg acaccgagga ggccagcggc tagaagaagc accaccacct cttcgggtga 180
 ccgtagtacc atccggcgct ttaccgagct aactagctcc ggcgcacaca ttacacaca 240
 ctgtaaattc tgtactgcat gcgtgtgtaa tttgatggat cacaataatg agtccatctc 300

cggaccttgg tagctgcatg cttgtgacga gtgagagtgt gagac

345

<210> 19738

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B8

<400> 19738

ctcccgcgca cctccctccg atcccccaaa tcccgaattg accaacccaa agccggggcc 60

cctgatggag tggacggccc cgaagcgcg cgcctcgccg ccctcgctc cgctcctctg 120

ggactgggga ggagaccacg ccggcgccac gggctcgggc tcgggctcct ccggcgacgc 180

ccggcgcgcg cgcggctgga gggagcggga ggcgaagcgc gccagggccg acgacggcga 240

ggtgaggtgc caggtggagg ggtgcgggct ggacctcagc agggtaagg agtaccaccg 300

gaagcaccgc gtctgcgagg cccacaccaa gtctcccg ctcgtcgtcg ccggtcagga 360

gcggcgcttc tgccagcagt gcagccgatt tcatgccttg tcagagtttg atcagaagaa 420

gaggagctgc aggaggcgtc tgtctga 447

<210> 19739

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-C1

<400> 19739

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ggcgggtctgc gcgggcgggt acgtattcca cgagcaccac gagaagaaga aggaccacaa 120

ggacgccgag gaggccagcg gcgagaagaa gcaccaccac ctcttcgggt gaccgtagta 180

ccggccggcg cgcgaccgag ctagctagct tcggcgca caaccacaca cctgtttaat 240

tctgtactgc atgcgtgtgt aatttgatgg ttcacaataa tgagtccctc tccggacctt 300

ggtagctgct tgcttggtgt gaggagagt gtgagac 337

<210> 19740

<211> 310

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-C2

<400> 19740

ccttgacagt caaggacaat ttactggttag ctggtgggtt tcaaggagag ctgatctgta 60
 aacgccttga tgaggaaggt attagttttt gctgtcgaac aacttatgat gataatgcta 120
 ttacaaatgc gggtgaaata ttttaatacct ctagtggcgc cgttcacttc atggcatcaa 180
 ataacgactc tgggtgtgaga tactatgaca tggagagatt ccagctattc aagcattttc 240
 agtttgaatg gccagtgaat catgcttagt tgagtcctga cagaaagggtg gttgatattg 300
 tgggtgatga 310

<210> 19741
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-C3

<400> 19741

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 gggggcggtg cgactgctcg cggcgctggt gctggcggcg ggaccgggcg gggcgcgggc 120
 gcagtcggcg tcgccgtcga gccagtgcac gtcggcgctg gcgagcctgt cgccgtgcct 180
 cagctacatc tccgggaacg tgtcggcggc gccgacgttg tgctgcgcgc agctgggtcaa 240
 ggtggtgcag tcggaccgcg agtgccctgt cgtggcgctc agcgcggaacc cggcgctcgt 300
 gggcctcacc gtcaaccgca cccgcgcgct gggccttccc gacgcgtgca aaggcacgac 360
 gcccgacgtc agcaactgca aaggcgccgt cgtcggcggc cgcggggg 408

<210> 19742
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-C4

<400> 19742

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atgatcgtgt tctacataag gccaaagccgc catcattaac gcttcttctg actcaaactt 120
 agaaagtcgg tcacaagtct cttgacttta tcatctatac ttacatattt atcatatcaa 180
 ctacaacatt ctactetcaa tgttgacagc tgactgtgtg ttaaccataa cttacttcta 240
 ctacgtatga ttatctagta accatagctc catcaatgaa ttttattatg atccaaatac 300
 accttcattt 310

<210> 19743
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-C6

<400> 19743

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 gctccccctg cgagttggcc gggctcgccc caaggcgaag ccgtcgcccta caccgctgct 120
 ccagccacga acgtcgcagg tgggccagcc ctccactttg ccaactgctcg ccacgatgtc 180
 actgctcctt gcaacggcgc cccctaccct atgccccgac cgcgggccccg ctgcttctcc 240
 agctctactg cccctgtcag acacgaccaa tgctctcag gcggagacag catccgaccc 300
 cgcgaaacata ggcaccgagg gcttcacacc atgcttcacc agagcgcaaa actccctcat 360
 cagtccatgg gagggactct agcaaacgac ggatctgccca atgggaaaga aatg 414

<210> 19744
 <211> 370
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-005-Q1-K1-C7

<400> 19744

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 ggggatagag ctgctgcaa tccgccgctg agaaggagg atcggaagcg acgatgaggt 120
 cgtttgctcc tgtctttctg tcggcggtcg tggcctggct ggagctggcg ggcaccgcgc 180
 agggcggcaa cttctaccag gacacagaga tgacctgggg cgatggccgc tgcaaggtag 240

tggacggcgg ggcggggctg gacctgacgc tggaccgcac gtnccggctcc cggttccagt 300
ccaagagcga gtacctgttc ggcaagatcg acatgcagat caagctgggtg ccaggcaact 360
ncgtggcacg 370

<210> 19745
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-A3

<400> 19745

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ccggatctct ggcgcaccca cgccctggctg ccgccgtcgt ctgctgcagc gatggcctcc 120
cccgacctgc tcttcaatct gcggaacctc ttctacctgg ggcctacca ggcagccatc 180
aacaacagcg acgtcccggg cctcgacgcc gacgccgccg ctgaacgcga cgccatcgtc 240
ttccgctcct acatcgccct cggtcctac cagctgggtga tcagcgagat cgactcgtea 300
gccgctacct cgctgcaagc cgtgaagctg ctccgctgt acctcactgg agac 354

<210> 19746
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-G12

<400> 19746

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cggctcctct cctccccctt tattccgcgc ccagcagcga ggcattggtgg agaaggcgag 120
gaccatggcg cgcaggctgg agatccccca gtggaaggcc gacggcctgc cgtcgcgcgac 180
gagcccgtg gaccgcgcgt cggcgtcgcc ccgtgggtgg cgccaccgcg acgccgtaag 240
aggaagcggtg gggctcggga tcttggcggc gctcgaggcc gaaggcccg cgcacccgcg 300
gccgaggggtg tccatcccg cgcgcgcggc gcggctggaa gtgtcggagc tcgggtgcaa 360
cgggcgcg 367

<210> 19747

<211> 184
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-G2
 <400> 19747
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 ctgcgtgggc cgacatggtg agggcgcta gcggtgcgtg gaacatgggg cttctggggc 120
 tgtccgtcgc ggtggttctt gctgtggcgc tcgaggcgcg gtccttggag aagctgaacc 180
 tatg 184

<210> 19748
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-G3
 <400> 19748
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 caagcggcta ccccgaccgc aaaaccaccc taccggccat gggctctcaa ctccacaccc 120
 agccgcctct caccggtctc taaacgacgg cgcgccccag ccatccgctc ggcgggccacg 180
 gacagcagct tcagctccgg cgagacgccc gtccaaaaga accacccgga aggagaacca 240
 ccaggaccgg cggcggcagc agaccgtgca ggaccggaag caccagttcc ggggaatgga 300
 aaaaccgtcc ttggcaaacc agaacggcgg cggaagcgga agcacaagca ccggcaaggt 360
 tgacaacaac aacgagcttc cgaagcccgg gttgaaccgc atgctgcgcc ggatcgcggt 420
 cacggtgggc cttcc 435

<210> 19749
 <211> 245
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-G6
 <400> 19749
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tgcgtccgtg ctgccagctg cccggccgcg ggacccaac aagcgggagt tccgttccta 120
 cggcagcgcg gcggctctgt tcgttcagat gggcgcgtac cggggcggcc cgcgtacggt 180
 cgccgtcatt gggttggcct ccaagccagc acacgtctat gacaccctct acttcaagtg 240
 cgagt 245

<210> 19750
 <211> 323
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-G7
 <400> 19750

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 gaagtgggtt gctggcaacc tggcctctgg tgggtctgct ggtgcttctt ctatgatttt 120
 tgtgtactcc ctggactacg cgagaacaag gttggctaata gacgcgaagg ctgccaaggg 180
 aggaggtgaa aggcagttca atgggcttgt cgatgtctac cgcaagacac tcaagtctga 240
 tgggtattgct gggctttacc gtggatttaa catctcctgt gttggaatca ttgtttatcg 300
 tgggtctgtac tttgggctct atg 323

<210> 19751
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-G8
 <400> 19751

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 tgttgctgca aatgatgttg ctttttcact gcatgctgta gcattgacag cctttaccgt 120
 ttttcaagta ttcatatatg agcgaggaac acagaaagtc tccaaagttt gcatatcaat 180
 ttctgctatt gtctggatcg ccgctcttgt ttgcctcatt attgcttggc caaaaagtga 240
 ctggcttttg gcttattgat gaattcaatt caatacaagt tggcatgaca gcaatcaagt 300
 acttccttca ggccatcatg aacttcaggc ggaagagcac aattggttgg agcgttggca 360
 atatattact tgatctcaca ggaggggtgc tgaatttttg ccaaattggtt gtgcagtcta 420

<210> 19752
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-G9

 <400> 19752

gtcgaccagc gtcgccagtc gtcgtccact gacagtcgac acctatagca cctgctcgac 60
 agagggtanag gcggagggtgt ctgctctctt ggggtggacc tacctgcaca cggatgcgct 120
 gggcagcgca gtcattgatct acaactactg accgacccca agcgctacca gcaggcctcc 180
 cgccgagtg cccatgcaga gcgcccgggt atcctcgccg tccaacaatg gncgcgcgcg 240
 cgtgtgtgtg catgggcccgc tctactgtac cgtcgacgat cgggtcgatc accggacaag 300
 gcaagacaag gcatcgaaac atggtagata aataaggact tgcgatttga acgcatagct 360
 ggtgcgtgcg tgggtgtggtg gaagaaattc ttct 394

<210> 19753
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-H11

 <400> 19753

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 tggaggatgc atcgatggga gtttctgata cagtcttggg aggtgcctat agtagccgtg 120
 gtggtcattg tggtcgacgt gcacgtgggc atcatccagc ccccttcaa caatgccata 180
 tcgtgcacct cgcacaattg gagatcgtgg tgctgctgtc tagtctgtgg acgacgacac 240
 tganggtgat gaattcaatg accaagatgc tttggggcat gctgaatgga ggaagttaaa 300
 atatggacca ccagaaaacc ttgataagct tgagataatg tttgagcata tagctatgaa 360
 tggatcaact tctgcacac caggacaaaa tattgatata gaaggacctg atgttgaagg 420
 agtagaagct gcaatagaag acagtccccg tagt 454

<210> 19754
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-H12
 <400> 19754

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 ttccgcccac cgatcgggct tcacgccagt ctcgggtctct tccgaaggcg tcgcgcgcgg 120
 ttgtttgaga ggagaggagg aagatgaggg agtgcacatc cgtccacatc gggcaggccg 180
 gcatccaagt cggcaacgcg tgctgggaac tttactgcct cgagcacggc atccagcctg 240
 atggccaagt gcctggagat aagaccgagg gacatcacga tgatgc 286

<210> 19755
 <211> 254
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-H2
 <400> 19755

 gtcacacaca cacacacaga caagtggttt ccaaagccaa gtgtgtgtac tagcaaccag 60
 ctagctcggg cggcagcagg caggcatcat gtcggaggag aagcaccacc acttcttcaa 120
 ccaccacaag aaggactatg agcagcccgc cggcgagtac gggactccg agaccgaggt 180
 ggtcaccggc accggcgagg gcgagtacga gaggtacaag aaggaggaga aggagcacia 240
 gcacaagcag cacc 254

<210> 19756
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-H3
 <400> 19756

 gtcacccaca ctaacgaacg aactcttgct ccgatcacga gctagctgag gtcgacgatg 60
 ggggctgtgc tgaacagcat gaagacgccg catgcggtgg tggccgtgct ggtggcggcg 120

gcgctgctgg ctctgtccgc ttcggcggcg atcacctgcg ggcaggtggg gtcgtcgctg 180
 gcgccgtgca ttccgtaccc caaggggagg gcccgcgcg ttcccagggt gtgcctgaac 240
 ggggtcaaga gccttaacag cg 262

<210> 19757

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-H4

<400> 19757

aattccgggc ggaactggac tagaactagt agatccaatc caacactcgg gacgaaatta 60
 aaggagacga cgcacatccc ggccggcagg catcgacagg tcaccacatc ggccggcgag 120
 gagggcggca tgaggctggt gtcgcacccg atcgcgggcg acgacggggc gctgccgcgg 180
 cagtacacgg cggaggggca gggcgccaag aaggacatgt cgccgccgct ggagtggtag 240
 ggcgtgcccc agggcgcgcg gtcgctggcg ctgctggtgc aggacatcga cgccgacccc 300
 gtcgtgccgt ggacgcactg ggtgggtggc aacatcccg cgggcacagg ggcctccccg 360
 agggttctcc cgcgccgagg ggcagggggc ggggcccggg 399

<210> 19758

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-H5

<400> 19758

acgcggagcc ggaggacgcc gccgccgacc tccccctccc ggccctcttc gatagggcgt 60
 cgcggtcca cgccctggcc tccagctccg ccctcgacca ggatgggatc cgcacggggg 120
 ttgacctgct gcggcgctgc gacgacatgg tcagcaagct cggcctcttc tcccccaacg 180
 agaccaagga ggacgtctcc acagcaaacc tcaagtacct actgggcca tattaccttg 240
 cagaaatgac cgaagagata gcacaggagg atcggtatccc ggttcttaag acgtcacagg 300
 accatctgaa ggagttcatt gctctatggg aagtactaga gcttatgcca gaggatgagc 360
 tagaattgtc taagcagaag caggcagata ctatgacgag cagaagagcg cagaaggtgc 420

ccggttcaaa cgtccaaggg ctgcagaaac gaagc

455

<210> 19759
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-H7

<400> 19759

tcgccagcaa tggattatga tagccacatg cagactactg tgaaggtgga agatgaaaaa 60
gcagaggatg acttgccaga tgctgacaat gatgtacaga aggtagagaa agagaagcta 120
aagaatgcaa aggatggggtc agataaacga aggaaagatg ccttattgag gaagttatcg 180
gcgccaatga cccactgaa tgatgcacaa aaacctgcac agaacctgcg tgcataataag 240
ggagaacttt agaaactgga gaaagaacag ggaga 275

<210> 19760
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-H8

<400> 19760

cggacgcgtg ggcggacgcg tgggcttgag aatatgtctt gaaggtggat atcatgtctt 60
ggatgagtca acacattaca gtagtgattt aaggccaact gcaaagcccc tgtggaaacc 120
tatcattggc attcttgaac tgggtatatt gacagcacag ggctgttgc caatgaagac 180
caaggatggg cgtggcacia ctgatgcata ttgtgttgca aagtacggac aaaaatgggt 240
gcgtaccaga actataatcg acagtttcac tcccaaatgg aatgaacagt acacctggga 300

<210> 19761
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-A2

<400> 19761

attcgagggc tgtgatcaag tgtatcgagg agtacaagct tcataaggag tattcacttg 60

tacgtgttca agagcctgtt tctgagctaa agcctaacgg tgagaaaagg ccatcaactg 120
atgctggtga gcgtacttat gcaaagaagc ctcgacgcc tggcatttca tttaccagga 180
gacctgacag ttccattggt tcagctgctc gcacgcctac atttccggac tataactggc 240
accgt 245

<210> 19762
<211> 390
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-G11
<400> 19762

atgatcctga gaaaatgctt tcacgtggaa cagaaattac tctttatttg agagatgagg 60
acggatatga gtttgctgac cctaccagga ttcaaggctt agttaagaac tactcgcagt 120
ttgtctcatt ccccatatat acatggcagg aaaaatcaag aacagttgag gttgaagagg 180
aggaagaatc aaaaggtgaa gaagctactg aagaatcaaa aagtgaagag gctactgagg 240
gtgaaaagca gaaaaagaag aaaaccataa ctgagaagta ctgggactgg gaattggcta 300
atgaaacgaa gcccatatgg atgaggaatc caaaagaagt tgagaanact gagtacaatg 360
aattctacaa gaagacattt aatgagtttc 390

<210> 19763
<211> 180
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-004-Q1-K1-E3
<400> 19763

caggatatta ttactagaga gcctcacttg tatgcattct cattcaagaa cgggagactg 60
gaggttactg agatcttcaa cttttctcaa gatgatttgt taactggaga catgatgata 120
cttgacacac aatgtggaat tttcatttgg aatggtcagt atgtggaatc aaaagagaaa 180

<210> 19764
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E4

<400> 19764

gggagagatt gtagtgTTTT aggctgagta gtgaagagct ttagtTtctg cacggaacat 60

gcatgatggt tattagttga tgcaacaaca ttgctgatat aaaaaaaga 110

<210> 19765

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E5

<400> 19765

cagtcctgcg ccgattccgc tcccaactct tccgagcatc agatcattga tccactggga 60

ctgtgatgag agtgtgaatg tagatgtcag ggcttcacat gagagtgaat atggatctat 120

ctctactgag aattcactag aatcagagag ggcagcatat gaatatctgg ctcacactcc 180

gtgcatgtca actgatgcac a 201

<210> 19766

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E6

<400> 19766

gccttactgg acaagcattt ggcaacaggc actttcgatg aggagattag acctatgggc 60

caggcagtga aatcattgct ggtgacctg ttctggctgt gcctcctgct gtttggcgcc 120

atcgagttct tcaagtggac acagcttctg tcgacgtgga ggggtgtggc gttcactgcc 180

gcaggtatgg cgcttgtgac ggggtgtcatg catgtcttca tcatgttctc ccaggctg 238

<210> 19767

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E7

<400> 19767

cggacgcgtg ggtggtgaca atgttggaga ttgtgctgcc cgaggcgctg atctttgtga 60
 gagcatagca gcagaaatta tcagtgcagt gataacttga ggaacaatgg cacagcgctg 120
 taaaattgag gatccgtctg gctttatatt gtttctctt gttgtgcatt catttgattt 180
 ggtggtgtca tcagtgcgaa ttctctcaat cagaagaaca cgtgactctg ggctcatttc 240
 ccctatcgaa gatcccatgg caattatgca aaaaggctac tctgttacta ttatgcttgc 300
 tgttcttaca tttggagtgt ctactcgggt gctcctgtac acggaacaag caccttctgc 360
 atggctaaat tttgcattgg ggggcttggg ggggatcatt acaggatatg cctttggttg 420
 gaatt 425

<210> 19768
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-E8
 <400> 19768

gggacgaatg gcgagctctc agtgctgcga taaccgccc gccctgaacc cggcctgcgg 60
 ggagggcaag gtcgtcgaca gcttcggcgg gttcaaggcc tacgtcgccc gccccgagga 120
 ctccaaggcc gccgtcgtcc tcgtcgccga cgtcttcgga ttcgaagcgc cgattatgag 180
 gaagatagcc gacaaggttg cttcgtcagg gtactttgtt gtggtaccag atttgtttca 240
 tggggatcct tatgcacctg agaatgttga gaagccctt cctgtgtgga taaagtcaca 300
 tactccggaa aaagggtttg aagagacaaa acaagttatt ggggctctaa aggagaaggg 360
 agtgtctgct gttggaactg cagggtattg ctgggtgca aaggttggtg tggagttggc 420
 aaaagctcat gagatccag 439

<210> 19769
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-E9
 <400> 19769

caccncggcg agtaacaacgg gagccccctgt ccgtgcaggg gccctgctc gggttcacgg 60
gcaccatcga gcgcgccgtg gtcggcggca cgggaagtt caagctggcg cgcggttaca 120
tgcttttcaa gatgataagc aagccgacgc cggagacgga cgtcaacgag atcaacctgt 180
tcgtgctcat gcaccccgct ggcaagtact agcgcacaca ccttgagact cgagtgagt 240
gctactaccg cattgttggt gggcaggttg ggtgaagtgt ctatggccaa tccaactctt 300
tcagatttgt ttctcttggt gaaaccaat aaacatgcaa cttctttgac ctctgagaaa 360
aaaatgtagg ccctgtttgt tgccgaatgg cttgtttggg tt 402

<210> 19770
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-F1

<400> 19770

gcgtcgacaa gggcgccacc gatgacgacc tcaagaaggc ctaccgcaag ctcgccatga 60
aatggcacc cgacaagaac cccaacaaca agaaggaggc cgagaacaag ttcaagcaga 120
tctcggaggc gtacgaggtg ctgagcgacc cgcagaagcg cgcggtgtac gaccagtacg 180
gcgaagaggg tctcaagggg caagtgccgc cgtcggggcg cggcggagcg ggccccggcg 240
gcgcaacctt tttctccacc ggcg 264

<210> 19771
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-F11

<400> 19771

cacaccaca ggcctgccgc cacagcaccg cggatagcag agcagagcgg cagccaggtc 60
gggcgtcgtc gtcgtcgta gccatgagca aggacaagca ccacaagcac gagcaccacc 120
tgcggcgttg ctgcgggtgc atggcgctgt gcctcctggc gctggctcta atcgtggcct 180
tcgtctcgct ggtggtgtac ctggcgctgc gcccttcgaa gccgtccttc tacctgcagg 240
acctgcagct gcgcaggccc a 261

<210> 19772
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-F12

 <400> 19772

ctgacccccg ggaggttatt aaaccaggtc aacacaaggc cattaacgat gaaggatatgc 60
 ctgancatgg ccgtcctttc atgaagggcc gtctgtttgt tgaattcaac gtcgagtttc 120
 ccgagcctgg tgcgctctcc cctgcccagt gccgatcgtt ggagaagatc cttccgccga 180
 aaccagggag ccaactgtcg gacatggagc tggaccagtg cgaggagacc acccttcacg 240
 atgtcaacat tgaagaggag atgagggcga ggcagcagca gaagaagcag gaagcctacg 300
 atgaagacga ggaggaggat gctcaaccaa gggtgcaatg tgcccagcag taaaatccgt 360
 gttcgttga actgttctcc aaaagtttca gcaggatttt ttatccatct gatcatctcg 420
 attctttttt gcaaaaatat aatcgt 446

<210> 19773
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-F2

 <400> 19773

ggactaactt aatcaaagag agcatcagaa tgggctacaa tgacattggt gattttcttct 60
 atgcccattg ccaactttca gatgctttca aaagctacat caggactcgg gactattgca 120
 ccacttccaa acatatagtt cagatgtgca tgaatgtgat tctgggttagc attgagctgg 180
 ggcaatatgc acatgtttca aactatgtca gcaaagcaga gcaaaccccc gactctctgg 240
 atcctaccat tgttgcaaag ctgaaggcag ctgcaggatt agccaacttg gaaacanaga 300
 aatacanatt tgctgctcgt aagtttggtg agacaggaat tgaactagga 350

<210> 19774
 <211> 314
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-F4
 <400> 19774
 ccaagcacac caccactcca cagtgcactt cactctacag caacgacaga aaagtgagca 60
 gcagacagca gcagctgctg ccatggaggc gtggagatct ctctcgcga gcttcgtgct 120
 cgccgtgctg gccgcgcagg ccttggtggc tgtggtcgag tccaggaccg gccccgtgga 180
 gcaggcgagc caaggtgacg acgtgaagaa gccggactgc gtgccgggga tagaccgcg 240
 ctcgttcccg gtgaccggcg gcggtcacgg catcacgcc gtgacgcat cgcacggagg 300
 ctccagctcc ccga 314

<210> 19775
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-F5
 <400> 19775
 caccactaca ccacaagtcc acaagtccac aacaccacca gcctcgtcac agccgcttca 60
 gcataccaca ccggacgcag acccaccgcg cgctacgacc accaccgtca ccatggccgc 120
 cgcgcgctac gacgtggaga agggcgggag gaataacggt gatgggaagc cttcgccgac 180
 gacgccgccg ccgccgccgc cgggccacct ggaccgcag cgcgacggcg agagggagtg 240
 ggtgccctgg gtggtgcccg ctcgctgtgg ccctcaacaa tcgtgctctt cggcggtggcg 300
 atgtaccgca acaactggcc gggcc 325

<210> 19776
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-F6
 <400> 19776
 ctaacaccag ctagcaactc tttctctcct gcaataatgg ccgctcgtc ctctcctcc 60
 cagccgcagc tggtcgcggc ggcggcggtc ctggcagcgg cgctgctgct gctggcgggc 120

ggggccggga cggcgctcggc ggcgggtgagc tgcggcgagg tgacgtcgtc ggtggcgccg 180
 tgcctcgggt acgcgatggg cagcgcgggc tgcacctccg cggcgtgctg cagcgggggtg 240
 cgctcgctca acagccgcgc gtcgtcggcg gcggaccggc aggccacctg caactgcctc 300
 aggagcatga cgggccgggt cggcgggcggc gtcagcatgg ccaacgccgc caacatcccc 360
 ggcaagtccg gcgtctccgt cggcgggccc atcagcccca ccgtcgactg caccaagatc 420
 aactgatcga t 431

<210> 19777

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-F7

<400> 19777

gcggagcggg tttggtcggg agctcggaga atggggctct gataactacc tgacagttaa 60
 gcaagtcacc aagtattgct cggatgaacc gtggggatgg taccagcctc catctaagct 120
 gtgaaggggc attcactcca gggaaatgtaa tgcataccta actgacagca tcagtccctgt 180
 taatggacag gagctcgtgt acagtacagt gctcgtaaaa aaagctcttt gatggtaaag 240
 ttgcttgctg ctatcactac tccagaccag aattcaggac tggagagtac gatgtcatga 300
 gttgtactac ttgttagtct ggactcttta tcattcgaag tttggcagtg gtgtgtaatt 360
 gcact 365

<210> 19778

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-F8

<400> 19778

aaaatgactc aaacgagaag agtgtacttg aggaacgtgc tatggagcta gagcaagttc 60
 gtaggcagtt agaggattca agagctgagg ctagggagct acaaactaca attaagaacc 120
 tgaatcaagt tcttgaagag aaagcagaac ttgagaatcg tatgaaggat gcggagcagg 180
 caaccagcga cctaaactcc ctggtcgggt ccctcgacgg caagctgaaa gccacagagg 240

cgcagctcga acagcttaac gcggagaaag cagaagcgat cctcgaaagc gagaaacagg 300
 tatccgagct gaaccaagcc atcgcccgtc tcaagacgcg gctggagctg ctgtcttcgg 360
 aaaaggccgc agtcaagacc aaggagtccg ctctgctgac caacgtcgcc gtccgcgacg 420
 agaagctgaa ggagacgga 439

<210> 19779
 <211> 333
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-F9

<400> 19779

tccggattcg gtcgaccag cgtcggcagc acgacgagta tcttaatacg tatatacgaa 60
 gcgcatgatg tgggtgcatat ctgggctgta ctgtgtctat ggcgggaacc cgatggcaac 120
 ggacatcccc aaacagacag acgcgaatgc ttctgtcga ttgaaaagaa tacaggatcc 180
 agagttctac atctgaacac tattatacag acgccggccg cgatactgcn gtggaatggg 240
 tacatgcaca aagcaccag gcggtcattg aactcaactc acagcaaagt tgcaagctaa 300
 tcttcattctt ggaacctacc ttcttaaata ctg 333

<210> 19780
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-G1

<400> 19780

agcagcggtta cttactcact agtcactact gcttggctct agcctctagc tagtcaactc 60
 ctgcgtggcc cggcatgggg agggcgccga gcggtgctg gaacatggcg cttctggggc 120
 tggccgtcgc ggtggttctt gcggtggccg tcgaggcgcg gtccttggag aaacaaaaa 179

<210> 19781
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-G10

<400> 19781

ccgacctgcg ccacctccgc gccgtctcgc ccgaggacgc ggccggccttc gccgagcggc 60
acggcacctt ctccatggag acgtcggcgc tggacgccac caacgtggag cgcgcttcg 120
ccgaggtgct ccgccagatc taccacgtcg tcagccggaa cgcgctcgac atcggggacg 180
accccgccgc gccgcccagg ggcaagacca tcgacgtcag cggccccaag gacgaggtct 240
cccctgtgaa cgcgggcggg tgctgctcgt cggcttagcc ctggtcaaac atacgctttg 300
ctgattaagg aagacataac gtgatgacaa tctttgttga ctctgtcaag cggttggggg 360
tggttggcgc tcgtgatgtg tttgcagact agcaatcgct gtctctgatt gtatttttcg 420
ggctattttt tgattgatgc ac 442

<210> 19782

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E2

<400> 19782

ccagtgcgtg cctggcaagt ggcaaactcg agctgtctag tcttcggttc gcgaatcttc 60
cacagagagg cagacggcag gactcgcttc aagctcctca tctcgcgag ggggggtcgc 120
ctgagatcac agagacaatg gtgaaggcag ttgctgtcct cgccggcact gatgtcaagg 180
gcaccatctt cttttcacag gaaggggatg gtccgaccac cgtgactgga agtatctctg 240
gcctcaagcc aggctccat gggttccatg tgcacgcgt tggcgacacc accaacggct 300
gcatgtcgac tgggccacac ttcaatcctg 330

<210> 19783

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-004-Q1-K1-C12

<400> 19783

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tgtntngaga ggacgtaggt aggggtggaga tatgatagga taacttaaatt ttgnattaaa 120
 tttagaatatt aagttatggt agtaataatg.ggggtgaaaa gacatattaa caaagaaaga 180
 tcatattaaa agttgatggt acatttgcag atataggacg taggagggttt tctataaatt 240
 agaaaaatgtg taagagcatt ttgaagtcaa ttgttttgtt actagtgatg taatggagaa 300
 acagagtttt gtgtgtgtgt acaatcaagt aaaatgtgga cacaaaattt ttttagatga 360
 gaagataa 368

<210> 19784
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-C2

<400> 19784

atcctctgtc tcggcgctcg cgagcaacag aacagacaga ggaggggagg cgaggcggaa 60
 atggggctcc gcgtccgcgc ctctctgctt ctgctatccc tggccatcga gctcgcggcc 120
 gtgctcgtct cagtgtcggc gcagcagaaa ttcgggatca actacgggca gatcgcgaaac 180
 aatctcccgg acccgacgca cgtggcgacc c 211

<210> 19785
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-C3

<400> 19785

aaggactgga gaaaattatt ggtgtttaga gaggagtggc aaaggtatag agggcatttc 60
 tacagagcgt tgtcaagtgc gcatacatat ggaggctgat ccctcattga aacaaaagtt 120
 ggttgacttt gctagaaaag ttaaaaagat agatgatgaa atagagaagt acatggaact 180
 cttcactgag ctacagagaga accctgctga tattaatgcc attgttgcaa gacgacggaa 240
 ggatttcact ggggacttct tccgccatct taatttcctt gtgaatgctt ataatggcct 300
 tgatgagcga gatggaatag tcaggcttgg ggccaaatgc ctgtccgcaa ttcattgcata 360
 tga 363

<210> 19786
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-C6

 <400> 19786

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 tcgattcgac cccgattcgt cgcgccgga cgggattcc ctccgccaag cgcgatctg 120
 aacgctgcgc tccgtgtcgt cgctcgaatc cgccatgaag ggggccaaat ccaagggcgc 180
 cgccaaggcc gatgccaagc tggcggtgaa gag 213

<210> 19787
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-C7

 <400> 19787

 acgtccata tatttttttt ctttttaaag tttccagtgc agagaagggt ctcgtgaatt 60
 gtgcacctga agaagagact gaaatgtcaa taagtcaaa atttcgtgct atacagccaa 120
 gttcttcaat cttttcatat gtggaagata atttactagg tcgtaggcgc ttaattgaga 180
 taaaaaatgc tggctacaat gtcaagattt ctgctcctct ggataacgtt cccttctcaa 240
 ccagcacaga gcgtgaacgc atagaggaca ttgcgttcag aaataagctg gaattctttg 300
 ct 302

<210> 19788
 <211> 189
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-C9

 <400> 19788

 ctaatatata agataatggt aaattagcct gagttcgtga tctgcttttag ttcagtttac 60
 cattagcttg tatattatga gcctcagttt gtatcactta gggcctgttc gtttctgctg 120

gaacagacca ggattaattc caaatctcta aaacttatag taattattga aagaatccga 180
gtcatatatt 189

<210> 19789
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-D1

<400> 19789

gctctcgtcg ccgtcctctc ccgttcgcaa cgccacgcta cccaccgccg aaatggcccc 60
gaagggaggt ggcagggcac ccgtgcctgc caagaagaac acggataaag tgacgaaccc 120
tctgttcgag aaaaggctga agcaggctcg catcggcggc gcgttgctg ccaagaagga 180
cctgcaccga ttcgtcaagt ggcccaaggt cgtgcgcatac cag 223

<210> 19790
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-D10

<400> 19790

ccatgacgga gctcatacgg aagccacacc tgatgaagaa gctgcaggaa gaagtgcggc 60
ggaacgtgcc ggcgngcag gagatgggtca ccgaggacaa tctccccggc atgacctacc 120
tcaaggccgt catcaaggag acgctccgcc tgcacccgcc ggtgccgctc ctctccccgc 180
actactccct ggacgcctgc gaggtcgccg gctacacat cccggccaac acccgcgctc 240
tcgtcaacgc ctgggcgctc ggccgccaca gcggctactg ggagcgcgag aacgagttcg 300
tcccggagag gttcctcagc ggggacgtcg ccggcgccgt cgacctcaag cccaacgagt 360
tccagttcct ggcgttcggg tccgggcgga ggatgtgcc cggggtccac tcggcgctccg 420
cgaccatcga ggcgatgctc tc 442

<210> 19791
<211> 429
<212> DNA
<213> Zea mays

atgagtgaat aataaaaaacc ctctcttgcc cctgccgctc tacgctttct ctcgtctgga 180
actggaactg gaactcagac atcgtcactg gacca 215

<210> 19794
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-D6

<400> 19794

gccatggctc tccgcaccct ggcacgaag aaggtcctat ccttcccgtt cggcggcgcg 60
ggccggccgt tggcgggcggc ggcgtctgcg aggggggtga cgacgggtcac actccccgac 120
ctctcctacg acttcggcgc gctggaaccg gccatctcgg gggagatcat gcgcttgac 180
caccaaaaagc accacgccac ctacgtcgcc aactacaaca aggcgctgga gcagcttgac 240
actgccgtct ccaagggcga cgctncgct gtcgtccagc tgcagggcgc catcaagttc 300
aacggcggcg gtcattgtgaa ccattcaatc ttctggaaga acctcaagcc cattagcgaa 360
agtggcgggg agccgcctca tgggaaactt ggctgggcca tcgatgaaga ttttg 415

<210> 19795
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-D8

<400> 19795

gcaaggtggt gttcaggata gaaatggctg aactgttgct acactatttg gaaaatggga 60
tgaaagcatg cactatgtaa tgggtgattg ctttgggaaa ggcattggga ctgaacagtt 120
ttcagaggcc catttggtgt ggaaaagaag caaacacct aattttccca ctagatacaa 180
tctcactcgc tttgcaatta cactgaacga acttaccctt ggattgaagg aaaaattgcc 240
accaacagac tcaagattac gaccagacca gagatgtctg gagaacgggtg aatatgaaag 300
ggcaaagtct gaaaagttga ggcttgaaca ganacagcgg caggcacgaa agatgcagga 360
tagcggatgg aagcctcggg ggtttgcaaa ggataaagct actgacacat accgttactt 420

cggtgggtac tgggaatcca gagaaaagag c

451

<210> 19796
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-D9

<400> 19796

ctcttctgcy gcgaaaaaac ccccatcgtc catcagatca cttgttaaac tttgttgagg 60
ggtgatggcc gtttctttcg cagacctcaa caccgaggca gggcttaaaa agcttgatga 120
gtaccttctc actcgcagct acatcaactgg ctaccaagct tccaaggatg acttggtgt 180
ctacacttcg ttttcgtctg ctccctcgtc caagtatctc aacgtagcaa ggtgggttaa 240
tcacattgat gcgctcgtga ggctgagcgg aattactgca gagggccaaag gtgtgaaggt 300
tgaatcctca gcagttcctt cagccccaac tccagatgtt gctgaagcac aggccccagc 360
tgctgangag gaggacgatg atgatgttga cttttttggt gaggagaccg aagatgagaa 420
g 421

<210> 19797
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E10

<400> 19797

cgtcctctgca cacggcgggtt ttcagactgc gatccattcc gagcttcgag gaatcgatgg 60
tgaagcttcg gtgactaaga gatcaaactc ttcaagttct acgaggctga agatcctgag 120
catctgtttg gtgaagattc ttatgccatg gaaattcatc gattgatacg tccttttcat 180
agtcgatcat ggttcaagga gattgcattt gtggatgctc taatggagtc gaaagggtgt 240
aagaagtcta gtagtagtag tagtaatttc atgtacgaag ctccccttgg ctacaagatc 300
gaggacgttc gccagccgg aggaatcaag aagttccaga ctgctgctta ttccaactgc 360
gtccgccagc catcctgata tcgcctcaca tgcaattcgc ggtagagtag gattttaatt 420

cagttt

426

<210> 19798
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E11

<400> 19798

ccctggggcca cgcgacgagc ctgccgccct acgccacacg accgggggcag gttgcgcaag 60
acgctcatgc tgctcttcca gctcgacgac tccaccggca gaggcgtcgc gcgtccgtcc 120
gagggggcccc aatcggcgga gttccagtcc gtttccgaag gaggaggccg aggggggcaag 180
cggatctatt ttccccctg gcacgtctct ctgtccaccg atctccgccg cctcactgct 240
cgcatcgctg gcctcaccgg ccgcaggcag ctgcccaga tcatggcgga ggtggaagca 300
gcgcggtgtc gtgtgctggt gggcggttg ctcaacacca tcgtcatgaa cgtggttctc 360
gagccatgcg tgtgcggc 378

<210> 19799
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E12

<400> 19799

cacctgacat caagagggag atgcagatgg agatgcagcc cgcaccacca ccatctgctg 60
cggcgtcggc atcgacagc gcgtggccgc tggattggcc ggtggacggg cgctcgctca 120
atcctccatc gctgcccact atatcagtcc agtatgtgag tcatattgat ttttataatc 180
gattttatgc gccagttctt gcctcgacta atgggtcctc ttccattttg taatcacctc 240
tgcatgttta ctgtatcact ttggtaaatt actattgttc catgttgtct tccacaacat 300
actggactgg ttcagtgggt agtttctat tcaaccattt cataatgaag gatgtattgg 360
tatttaggta aataattatt tatgattgtg ctggtattat ctcaatagac tggaaaattt 420
taaataacct catatgacat aaa 443

<210> 19800

<211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-C11

 <400> 19800

 ctgggtttga gctgtttaga attaaggaga gggatatecc aattgaggtc cttgaactcg 60
 agaacaagaa cgacaagagc attgcatttg catgggaacc taaaggacat cgctttgcta 120
 tcatccatgg tgatggccct aagcctgatg ttagcttcta caccatgcga acagccaata 180
 aactagccg tgtatccaag ctcaaaccc tcaaggccaa gcaagctaata actctgtact 240
 ggtctcctgc tgggcgcttc atagttcttg ctggactgaa gggtttcaac gggcagctgg 300
 aattctacaa tgttgatgaa ctagagacaa tggcaacagg agagcatttt atggcaacag 360
 atatcatgtg ggatccaact gggagatatc tcgcgactgc agttacctca gttcatgaaa 420
 tggagaatgg 430

<210> 19801
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-A2

 <400> 19801

 aggcaaagga tgtcaagaag gaggtctcaa aggaggcccc caagccaaag gtggttgagg 60
 caccagcaga agaggaagca ccagagccaa agccaaagaa tcctcttgac ttgctgacac 120
 caagcaagat ggtccttgat gactggaaga ggctatactc aaacacaaag accaactttc 180
 gagaggttgc catcaaaggt ttctgggaca tgtacgacct agagggctac tctttgtggt 240
 tctgtgacta caagtacatt gatgagaaca ccgtctactt tgtgaccctg aacaaggttg 300
 ggggattcct gcagcggatg gacctgtgcc gcaagtactc ctttggaaaa atgctcgtga 360
 taggctctaa accacccttc aagctgaagg gcctttggct cttccgtggc cagaatgttc 420
 ccaagtttgg aatggatgag gtctatgaca t 451

<210> 19802
 <211> 294
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-A3
 <400> 19802

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atcaataaag cttgccgccg cctcgacgac atctcgtgcc gatcccaaca gtcattgttcc 60
aattgctctc ttggctgctg ctctctcttc ttccctcttg gtcttggcgg cggtctcttt 120
ttcccttctt cggcgaagaa aatggccagg caccaggcgc tcgactggtc gacgacggct 180
ctgttccaac aagtccgcgt cgtcggcgtc cggccgggcg cgctgcaaag tcatgacaga 240
agaaaaaaaa catgcgcgag cgtgacgggc aagaaaactc cagcagatcg agct 294
  
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<210> 19803
 <211> 313
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-A4
 <400> 19803

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attaaaatgg aattctgtta tcacaggatt attgacgatt ggtccccgtt tcggtggagc 60
aattgatgat gcagcccgat acttcaaaga tgcattgatg aggagcctca cgccatacga 120
gtttgttgaa ggcattgaaa agaagggaat ccgtgtgcct gggattggtc acaggattaa 180
gagcagagac aacagggata accgtgtgca gcttttacag aaatatgcta acacacattt 240
cctttaattc aagtaccatg gaatccgctg ttaagggtga aacctacacc ttgtcaaagg 300
ccaccatttg ggt 313
  
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<210> 19804
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-A5
 <400> 19804

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acgcgttggc ttttgaggcg acgtgagagc aggacatct tcaattcatg aaccctggca 60
tgaggatga tccaacttgt ggtcctatcc tagacaacgt tgccgtcaag aagctcttca 120
ccccagacaa accaaaggat aacgtggtgc tgaatggaga ctttgaggag ggtccatgga 180
  
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tggtcccca caccagcttc ggcgtgctgc tcccaactaa ccttgacgag caaacgtctg 240
ccatacctgg ttggatgata gactcaaacc gtgccgtccg gtacatagac tctgatgagt 300
acaagggttc ccagggaag cg 322

<210> 19805
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-A8

<400> 19805

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gatcgagggt cgctccaaga tgatgatgag cgggaaccgg aagcagaggg tggcattgtc 120
gccggtgaag gaggccgccg cgggtgcccc ggaggaggtg tgggaggtcc ggcccggcgg 180
gatgctggtg cagaagcgga gccncgacgc ggaaccgcg gctgtgcca ccatccgcgt 240
caagggtcaa gttcaacggc gtctaccacg agatctacat caattcccaa gcattccttcg 300
gcgagctgaa gaaactggtg tcggagaaga cgggccttga cccggacgac cagaaggtgg 360
tgtacaagga caaggagagg gacttcaagg cgttcctgga cat 403

<210> 19806
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-A9

<400> 19806

gaagtgaagg ttgcaccggt agaaaccgac attcggattc taaaactgca ggaagaaatt 60
ggtcaacatg atcgaaaata ttccccagtc aaatttacca accccttggg tgggccctca 120
aaactgattg agatgtgctt gaagagagac cgagagctct cccttaaagc ctttgaagta 180
tttgctttga caagctcatc gttccgaagt tctaacagag gccttctaga ggcattgctg 240
atgaatgcaa ctgaccaaga tgattgggta aagctttcag aggcattcat gtcagaaggt 300
tggagtgcg aggtcatcga agaattctct caagcaactg tcctcttcaa agcttcagg 360
ttgtgttaca gcccgatgc tgtggtgtat gacggcacct ttgaggatgt tctgcctgtg 420

aagaaagagg atgtacatct g

441

<210> 19807
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-B1

<400> 19807

ccattttgtc gtcgtcgttc cagctgcagt ccagagttgg aaccaagcg cacgcagcac 60
cgtcgtcgaa ctcttccctt tacggcggca ttggagatgg cggcgaatct agaggacgtg 120
ccgtctctgg atctgatgca cgaattgctc cgtcggatga agtgcagctc caagcccgac 180
aagcacctca tctcatcgg cccacctggc tctggaaagg gtactcagtc tccccttatt 240
aaagatgaat attgcctgtg ccatttagcc actggtgata tggtgagggc tgctgtggca 300
gccaaagaaa ctctagggat caaagctaaa gaagctatgg gtaaaggaga gcttggttca 360
gataacttgg ntgtggggat tattgatg 388

<210> 19808
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-B10

<400> 19808

gggaggtcat nactccccgc tgggccatgc tgggcgcgtt gggctgcgtg ttccgagctg 60
gtcgccgcaa cggcgtcaag ttcggcgagg ccgtgtggtt caaggccggg tgcagatctt 120
cagcgagggg gggctggact acctggaacc cgagcctgat ccacgcgcag agcatcctcg 180
ccatctgggc ctgccaggtc gtgctcatgg gcgccatcga ggggtaccgc gtcgccggcg 240
gcccgcctcg agaggtcgtc gaccgcctct accccggcgg cagc 284

<210> 19809
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-B11

<400> 19809

caccaaacta ctcacctgtg ctcaacactg acgacgccta cgccagtcaa gaagttaacg 60
gggctgacgg gaagcccatt ggtcctccta tgggaaatcc atggatctac atgtaccctg 120
agggcttgaa ggatctcctt atgatcatga agaacaaata cggaaacca cctatctaca 180
tcacggagaa cggaatcggg gatgttgata ccaaggagac acctctaccc atggaggatg 240
ccttaaataga ctacaaaagg ctagattaca tccagcgcca catcgctact cttaaggaat 300
caatagactt gggatcaaat gtgcaaggct acttcgcttg gtctctgctg gacaactttg 360
aatggttcgc cggcttcacc gaacgttatg gcattgtcta cgtcgaccgc aacaataact 420
gcacgcgcta catgaaggag tc 442

<210> 19810

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-B12

<400> 19810

cttcacaagt gcaacatggc tggaaagcct gctgttgta ctcgtgtcgt ggacagcatg 60
agtgacaacc tcagacctac tcgcgcagag gcaactgatg tggcaaatgc agttcttgat 120
gggagtgcgc ccattctcct tgggtgctgag actctccgtg gtttatatcc ggtggagact 180
atttcaacag tgggcagaat ttgtgctgag gcagagaagg tatttaacca agatttatac 240
tacaagcgga ctgtgaagta tgtgggagaa cctatgaccc acttgagatc tattgcttct 300
tcagcagtgc gagctgcaat caaagttaag gcatcagtca tcatttgctt cacctcttct 360
ggacgagctg caaggctcat tgctaagtac aggccagca tgcctgttct atctgttgtc 420
attcctcgtc taaagacaaa c 441

<210> 19811

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-B2

<400> 19811

caagcagatg aaaataatgc aagaattcca aaagcagtca gcacaaatgg atatgacaaa 60
tgagatgatg tctgattcaa ttgacgatgt cttagacgat gaccaggccg aggaagaaac 120
tgaagaactt gctaattgagg ttctggatga gattggtgta gacattgcat cacagttgtc 180
ctcggctacc aaaggaaaaa ttgctgggaa gaaggttcag ggtgatg 227

<210> 19812

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-B3

<400> 19812

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aagtgaatc aacattgaag gcttcaagat ggaagtcatt gaaacagcat atgccgggca 120
tgcaaagggt ctttcttcta ctggtgacct caaaaaattc cctgatggta ttatatgtgt 180
tggtggcgat gggatcgtca atgaagtttt gaatggatta cttaatagag acgattttga 240
cgtggcaatt cgatttccca ttgggataat acctgctggt tctgaatatt caatggtgtg 300
gactgttctt ggcataagg atcctgtttc ttcggcaata gctttagcta aaggggattt 360
cacac 365

<210> 19813

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-B5

<400> 19813

tcgccagcga cgacggcggc tgggtgaacc cgccgcgcc gcacttcgac atggccgagc 60
cggccttgct ccgcatcgcg cagtaccgcg ccggcatcgt gcccgtcgcg ttcaggagag 120
tgccgtgcgt gaagaagggc ggcatacggg tcaccatcaa cgggcactcc tacttcaacc 180
tggtgctggt gaccaacgtg gcgggcccgc gcgacgtgcg ctccgtctcc atccggggct 240
cccgcacgga gtggcagccc atgtcccgga actggggcca gaactggcag agcgactcgt 300

acctggacag gcaggcgc

318

<210> 19814
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-B7

<400> 19814

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attgtctggc ttgctagcca gagcgcaggg ctagaagtag cacatgagga tgctgcaagg 120
gtctagattc tattatgtgt ttaagggcag tactgaagtg cttgacatgc catgtcactc 180
ggagtaattt cctgggggaca aggtggaaac tctntcccct gtttttactg tatttaaact 240
tgcagttttt ctgttatgta gaaccttctg aaacctctag ctgagctagt catttggcac 300
gtcatatacc acacattgag atattcttgt tcaatttgta ttgtatgaat cagctgaatc 360
taac 364

<210> 19815
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-B9

<400> 19815

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taatcttttc ctttgccctgt taccctatgg ttggggggtt cctgtgaagt tgtacgagtt 120
tccttgccn accctttctt cttaatatat tgatacgag ctctcctgcg ttttcgaaaa 180
aatctagccg gtaattacct attcgtcatc ctaggagaag cttcacctaa gttgatattt 240
actgaacgat ctctagtcac tatgtataca tatgtgtgtg tgtgtgtgtg tattacatta 300
actcttttcc atgtatgcag cttcactgct tggaaaaaaa tggcagacag acaacaaaga 360
agatttctta ctgtgctcaa catcgagacc ctaaccctga taatgntttg ataattc 417

<210> 19816
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-C1

 <400> 19816

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 tgtggattca tcagatataa tcaatatact acagagcagg atcaacccca atgacgaact 120
 cactaatgac gaggaagcaa aatggcgaag gtgggttgat gagcaccttg tgcattgtctt 180
 atctcctaac atatatcgga caacttcaga agctctagaa tcttttgact acattgcaaa 240
 acatggt 247

<210> 19817
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-C10

 <400> 19817

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 atgtgctagt atagcgggtg atatggttct tgcttctgcc tactcgcatg agttgccacg 120
 atatggtctt gaagttgggtc tgaccaacta tgcagctgcc tactgcactg gccttctggt 180
 ggctcgccgt gtgctcaaga tccgtgggtt ggatcaggag tacgagggca atgttgaggc 240
 cactggtgag gacttctctg ttgagccagc tgatgagagg aggcctttcc gtgctctctt 300
 ggatgttggc cttatcagga ctacaacagg gaaccgtgtc tttggtgccc tcaagggagc 360
 attggaatgga ggcttgata ttcctcacag cgagaagagg tttgctggat tcaagaagga 420
 cgacaagcag ttggatgct 439

<210> 19818
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-A12

<400> 19818

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ggcgcgcagc agggcggtgtg gagcatcatc acccggccca tgttccagag catgctgagc 120

caccgcggcg acagcgggtg ccagggcgcc ttctacacct acgacgcctt catcgaggcc 180

gccagcaagt tccccggctt cggcaccacc ggcgacgagc agacgcgcag gcgggagctc 240

gccgncttct tcgncagac gtcccacgaa accaccggtg gatgggcgac tgctccggat 300

ggaccgtt 308

<210> 19819

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-G8

<400> 19819

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caggtgtggc caggcgctcg caagctgcc aactggcacg agtaccacca gtggaagccg 120

acgaagctgt ctgctcttgt gcccggcctc gacgctgatg gctacgatct tcttgagaaa 180

ttgctggaat acgagccggc gaagcggatc cccgcgaaga aggccctgga gcaccctac 240

ttcaaagatg tgaggaaggg agatgcgcac tgactgaagc gatccaccaa agggcccgcc 300

tcacgagttg acatatatat acgtgtgtgt cgtcgtgtcg agcatgattg ccctgaagca 360

attcttttgc taccagggca cagnctactt tctggtctct 400

<210> 19820

<211> 186

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-G9

<400> 19820

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tcacaacgca gggcagtaaa acattnatca accatggatc ttacatactt ataactgata 120

caaccattat taaccctata ctatagatcc atttaccctt taagtttgct aataatacaa 180
aatatt 186

<210> 19821
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H1

<400> 19821

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cggcgagttc cccggcgact acggctggga caccgcgggg ctgtccgccg acccgagac 180
tttcgccaag aaccgcgagc tggaggtgat cactgcccgc tgggccatgc tgggcgcgct 240
cgggtgcgtg ttcccggagc tgctcgcccg caacggcgtc aagttcggcg aggccgtgtg 300
gttcaaggcc ggggtcccaga tcttcagcga gggcgggctt gactacctcg gcaacccgag 360
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<210> 19822
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H10

<400> 19822

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aattatctaa ctccaaaaac catgaagctg gtgcttggtg ttcttgcttt cattgcttta 120
gtatcaagtg tttcttgtag acagacaggc ggctgcagct gtggtcaaca acaaagccat 180
gagcagcaac atcatccaca acaacatcat ccacaaaaac aacaacatca accaccacca 240
caacatcacc agcagcagca acaccaacaa caacaagttc acatgcaacc acaaagacat 300
cagcaacaac aggaagttaa tgttcaacaa caacaacacc aaccgcagaa ccaccaccaa 360
caacaacaac aacagcacca acaacaacat caatgtgaag gccaacagca acatcaccaa 420
caatcacaag gccatgtgca acaacacg 448

<210> 19823
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-H11

 <400> 19823

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 ggggtgggcgt cgacatggaa cgggtggcagc ttcattctgt aggtgatgcc tcggcaagta 120
 ttgcagaagc agctgaagaa actggacttg aatcccatgg aacaggggag ctctacacaa 180
 ggtgcgccag gtggtgatgg tggcacattg ggtaaccacc accagcacac atccgatgag 240
 catatccagg actgaggaaa ttgaagctgg atgtaggatt aaattttgat gtacactgac 300
 acaacctttg gtgtcat 317

<210> 19824
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-H12

 <400> 19824

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 aacaatggcg gccaaatat tttccatcct tgtgttcctt gctctttctg catgtgttgc 120
 taacgcgacc atttttcctc aatactcaca agctcctata gctgcccttc ttcccccata 180
 ccttccatca atgaccgctt cagtttgtga aaaccagcc cttcaaccct acaggctcca 240
 acaagcaatc gcaacaagca acttaccttt atcaccctg ttctttcaac attcgccagc 300
 cctatctttg gtgcagtcac tg 322

<210> 19825
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-H2

 <400> 19825

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 gggcaggggt aaacaggcgt agagcagctg cccaactgca acgatccac atggaaacca 120
 gcgaagctgt ctgctctttg cccagctcta cgctgatagc tacgcatctt ttcataaatt 180
 ggggaatcaa cctccgaact gtcccatga aaagccctgg atcaccagc acttcaaaga 240
 tctgacgaca ggagatgcac actgactgaa gcgatccacc aatggccga cctcacaagt 300
 cgacatatat atacgtacgc gtcacgtgt ccatcacgat tgcctgata caattctttt 360
 gctaccaatg cacactctac tttctcgtct cta 393

<210> 19826
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H3

<400> 19826

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 atcatacact tgattttact agcatgaagg aagaggagct ttacgagatt aatattcctc 120
 tgagctttgt agcttctgtt ggcactagag tacatggact agcttgttgg tttgatgtat 180
 tgtttaatgg gagcactgtg caaagggtggc ttaccactgc tccaggatcc cctacaactc 240
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 taactggcca tcttcgtctc gtagcccata gtgctcaaag ctacacaata tacttgacaa 360
 tgtcagctaa aatgtgggggt gtgggtgccg agcaaggcgg tatcctacag acatctactg 420
 ggaaac 426

<210> 19827
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H4

<400> 19827

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 ttatagaaga agatcggttg ctggctgaga ttaaaaaagt tgaggatact ttgacgcctg 120

aagaagcaag gagaacagc accatgtgca atatgctttt tgtgaatggc gccattcac 180
 tttctcccta tatctactct ctcaacagta aattcgggca tctgccagac aaagaccgtg 240
 gtgcaatcaa agaaaaactt gatccttcag ctagtggagg aatgaatggt tacattgcac 300
 tctgtgggtg ggaccggtcc cctcctgtct tcagatctcc tgtagatggg cttgaggaca 360
 tcatggataa tcaagtgata tgctcaatct acaagctttc agatccacac 410

<210> 19828
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H5

<400> 19828

gcaagactgc tggcaagccc aagccagcag cagttcggta gcccctggta cagagcccac 60
 cgcggtcttg atctgggccc actgtgcgga caacccccaa gctacctgac cggcgagtta 120
 ccctgctact acagctggga caccgggggg ctgtccgctg acccgagac tttcggcaag 180
 aaccgctagc tggaggtgat ccactgccgc tgggccatgc tgggcgcgct cgggtgcgtg 240
 ttcccgaac tggtcgcccg caacggcggc cagttccgcg aagccgtgtg gttcaa 296

<210> 19829
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-H7

<400> 19829

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 tcacggagga ggtcgctgcc gcggcgccgg tcggcgccgg cggtacgta ttccacgagc 180
 accacgagaa gaagaaggac cacaaggacg ccgaggaggc cagcggcgag aagaagcacc 240
 accacctctt cggctgaccg tagtaccggg cggcgcgcga acgagctagc tagctccggc 300
 gcacacaacc acacacctgt ttaattctgt actgcatgcg tgtgtaattt gatggttcac 360
 aataatgagt ccctctccgg accttggtag ctgcttgctt gtggtgagtg agagtgtgag 420

actganggag aag

433

<210> 19830

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H8

<400> 19830

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caaaactgcc ctttatagaa gaagaggggt tgctggctga gattaaaaaa gttgaggata 120
ctttgacgcc tgaagaagca aggagaaaca gtaccatgtg caatatgctt tttgtgaatg 180
gcgcccatc actttctccc tatactact ctctcaacag taaattcggg catctgccag 240
acaaagaccg tgggtgcaatc aaagaaaaac ttgatccttc agctagtgga ggaatgaatg 300
gttacattgc actctgtggt ggggaccgt cccctcctgt cttcagatct cctgtagatg 360
ggcttgagga catcatggat aatcaagtga tatgctcaat ctacaagctt tcagatccac 420
acaagcacat ggttcgtcca ccagctggtg gtatcatacc 460

<210> 19831

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-H9

<400> 19831

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gctgcgtcgg cctcaccggc tacgtcggcg ccaaccccag gtcctcacc cctcaggcca 120
gaaagctgct ggcggngctg ctggcgggtg agtcggcgca ggacgcggtg atcaggacgc 180
tgctgtacga gcgcgggatg gcgcgtgtgc cgagctacgc cggcgggtgtg gcggagatca 240
cggcgcgcat ctcggaacctc cggaactcgc tggggaggag gggcgtgaag gacgagggcc 300
tggtggtggc gcccgagctg gggcccagg ggctgaccgt ggggaacatc atcgccggcg 360
accacctgtc gctcgcctac gaccggacgc cggaggagat cctcgggatc gtgtacggca 420

ccggttaactc cgcccagcac

440

<210> 19832

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-A1

<400> 19832

gccccgacat gtgcacaact ggaggcactg aatgtttccg tgctaggtgg cgtgtctcag 60
acagtagact tgcagacggt gtacaacata gaaggctggg atgcgtacgc gttggctttt 120
caggcgacgg aagagcaggc acatcttcaa ttcataaacc ctggcatgga ggatgatcca 180
acttgtggtc ctatcctaga caacgttgcc gtcaagaagc tcttcacccc agacaaaacca 240
aaggataacg tgggtgctgaa tggagacttt gaggagggtc catggatggt ccccaacacg 300
agcttcggcg tgctgctccc aactaacctt gacgagcaaa cgtctgccat acctgggttg 360
atgatcgagt caaaccgcgc cgtccgttac atagactctg atgagtacaa ggtttcccag 420
ggaaagcgtg ccattgagct tc 442

<210> 19833

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-004-Q1-K1-A10

<400> 19833

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gctcaggata atgaagggtc ctgcctctga ggccagggtga tcgctgatcc atacataaac 120
agaggctaca gacacgccac ctgggaacgc ggatccaaga gcacacacgg atcgtacttg 180
acgaggaagg agggaggagc agtgtggctt gagctctcca gtgttggtaca aagacatggt 240
tctttctgaa cccaaaaggg agaaagatgt atgaagcgtg tatataagat cttagctagc 300
agtttggttt catttgatg agcgatcgaa ggctgtaaaa aatgaaaaag aaaaaagaaa 360
aggaatgag aaattgacta aagctgggtc ttnttcctct canaaaanaa a 411

<210> 19834
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-G7

<400> 19834

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cgcagcgcgt cctggctgtc gtcggcgctg cgctcctcgc tcggcgccgc cgtcggcggg 180
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cgctggctgc gcctgctgcc ggagctgtc acggagatca tgcgccgcgt ggacgccggc 300
gccgagcgtt ggccgncgcy cggggacgtc gtggtctgcy cctgcgtgtg ccgccggtgg 360
cgcgacgcgc ctgtctcggt cgtgcgcgcg ccgctcgagt gcggcaggat caccttcccc 420
tcgtcgctca ag 432
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<210> 19835
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E9

<400> 19835

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aagagatttt ccctccttat gctccttgct ctttctgcat gtgttgctaa cgcgaccatt 120
tttctcaat actcacaagc tctatagct gcccttcttc ccccatacct tccatcaatg 180
accgcttcag tttgtgaaaa ccagccctt caacctaca ggctccaaca agcaatcgca 240
acaagcaact tacctttatc accctgttc tttcaacaat cgccagccct atctttg 297
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<210> 19836
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F1

<400> 19836

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cctgcgagcg atgggcatcg tcgacgtcgt ctccgagttc tgctccttgc cgaggactcg 180

ccggcatctc aagaagagga agcagttcca ggtatatata aaccatcttc ttctatttct 240

gttcgggggtc tcttatccca gccagcccaa caactgaact gaacgggact cgccgcagac 300

ggtggagatg aaggtgcgca tcgactgcga aggggtgcgag cgcaaggatga agaaagcggg 360

ggagggcatg aaaggcgtga gctccgtgga ggtggcgggc aagcagaaca aggtgacggg 420

cacgggctac gt 432

<210> 19837

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F11

<400> 19837

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gatgggtgggt catccaacac acagcacttc gcttctcccg cgtccagacc cgcgcgcagg 120

ccctaattgcg gttagggctg taacgatctc gtttggctac cggcggcccg ttgcggaacg 180

ggccacccaa cgcgctcctt tgagtctggt cgactaatct accgttgact gaacttgggg 240

ctgccgccac cagaaagccc taacaagtcc tttgctcctt aactccgtca ggctcgtggc 300

cccagggttt ggtccctaac ttttaacctt caattttggc cttgattggc accacctctg 360

gaggttccac tggatgattg gattaagacc aaacctggaa ggggaccagg aag 413

<210> 19838

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F12

<400> 19838

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cgcaagctcc tatagettcc cttcttcccc cg 152

<210> 19839
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F2

<400> 19839

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gcagcacagc gcaccatgga atggctgagc tggagaacgg tgtgttggtt atcagtgctg 180
tgcaccgtgc tgttcttgcg cccggctgag ggcattcgct ttgtgatcga tagagaagag 240
tgctttctgc ataacgtgga gtatgagggg gatactgtcc atgtatactt cgtcgtcatc 300
aaggctgaca ccccgctggca ttacagcgaa gaaagcgttg atcttgtggg taaggatcct 360
aatggcgctc aagtcctgta ttctcgagat aagactagtg ataaaagttga gttcatagtt 420
cagaagag 428

<210> 19840
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F3

<400> 19840

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tgaatgggct aaagcattga aggatctata tatgcctggt ttgcgggatt atgttaaaaa 180
gcactaccct cttggctctg tctggggctc tgctggaggc gctgttggtt ctcaacaaaa 240
ggctgctgct cctacaccta aagctccagc ggtaaggtc cccctccac cagctcctcc 300
tgcagcgctt ctgttttagca cagagaagtc tccaaaatct tcaaagccta aagaaaggat 360
gtctgctgtc ttccaagaga ttagttcaaa acctgtgact tgcagggtgc gaaagggttac 420

cgatgacatg aagtcta

437

<210> 19841
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F5

<400> 19841

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cttgcttgcg cttttgtatt cacaggaatg gcgatcattg ctctcttcat cagtaaagcg 120
gcagattacc ttgttgagaa acaggagggtg ttgttcttca aagcactgca catgaatatg 180
aagggcagcg aggccaaaat gctaggagca atggaaacaa ataggataaa gtacaaattc 240
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gttgagaagc tcagccttgt tgattccttc tactgtgtct gtgccacgat cactaccctg 360
ggttatgggg ataaaagctt ctctgccaaa cttgggcgtg tttttgcagt gttttggata 420
accacaagta ctctcatcat g 441

<210> 19842
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F6

<400> 19842

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gactccgctt cccgtcccca tcccgtgctg caagatcggg aggggacgaa gagaggctga 120
ccgggaggag atgcaccgag accgaggcgt ctctgcggca gcgatacccg gtgaccggaa 180
gcggatcggc gagcctatgg acagatcgtc tccatctacg tcgtgggggt tctccggagg 240
gcgcgagaag gaggcgatcg gcgtgggcaa gcagccggag atgcctcgct ccggcggcgg 300
atccaccgcc atgtccaaga gcaagctctc tgacgaatca gaaactgaca gcgaagaatc 360
agatgtgagt ggttctgatg gggaagatac ttcgtggatt tcatgggtct gtagcttaaa 420
gggcaatgaa tttttct 437

<210> 19843
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-F7

 <400> 19843

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 ccaaggacga cagtgggtac ggcgacgagc gccggcgcgga gctgcaggcg ttcgacgaca 120
 cgaagctggg ggtgaaaggc ctggtggact ccggcgtaa gtccatcccg tccatcttcc 180
 accacccgcc ggaagccctg agcgacataa tttctccggc gccgcctctg ccgccgtcgt 240
 cgccctccgg cgccgccatc ccggtgggtg acctctcggg gacgcggcgc gaggacctag 300
 tcgagcaagt gaggcacgcg gccgggacgg tgggcttctt ctggctgggtg aaccacggcg 360
 tggcggagga actgatgggc ggcattgctc gcggngtgcg ccagttcaac ga 412

<210> 19844
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-F9

 <400> 19844

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 aaggagatcg gcatcccgtg cgtgcagcgc tgcgtggagg agggcggcat caacgtggac 120
 cagatcttct tacacgaacc cgacggcttc atgatcgaga tctgcaactg cgacaacctt 180
 cccgtcgtcc cgctcgccgg cgaccagcaa cgcgcgccgg ccgt 224

<210> 19845
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-G1

 <400> 19845

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 ccaattcccg ccgccgtcc atcccgtaac gcgacaccat gagggagtgc atttcgatcc 120
 acatcggcca ggccggtatc caggtcggaa acgcgtgctg ggagctgtac tgccttgagc 180
 atggcattca ggctgacggc cagatgcccg gtgacaagac cattggggga ggtgatgatg 240
 ctttcaacac cttcttcagt gagactggcg ctgggaagca cgtgccccgt gctgtttttg 300
 ttgaccttga acccactgtc atcgatgagg tgagaactgg cacctaccgn cagctcttcc 360
 accctgagca gctcatcagt gggaaggagg atgcagccaa caactttgcc cgtggtcact 420
 acacc 425

<210> 19846
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-G10

<400> 19846
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 tgctgcctta tgctccttgg tctttctgca agtgtgtcta ccgcaaccat tttcccacaa 120
 tgctcacaag ctcttatagc ttcctttctt ccccatacc tttaaccagc ggggtcttca 180
 gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcg 229

<210> 19847
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-G11

<400> 19847
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 gtcctatac cttcccttct ttcaccgtac ctgtcaccag cgtgggtctac cgaatgtgaa 180
 aaccatttc ttaacccta caggatccaa caggcaatca cacctggcat attaccttta 240
 ttacccttgt tcttacacca atcataagcc ctattacatc agctaccttt ggcgcatata 300

ttgacacaaa acatcaggcc acaacatcta ctacaactcg tgctagcaaa cttgatgac 360
tactct 366

<210> 19848
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-G2

<400> 19848

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tatcaaaacc cattatcagc 140

<210> 19849
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-G3

<400> 19849

ggccaaacca aatcatgact gacaactgac egggagtacg acatcggcga cgagatcggg 60
cggggcgttt cggcgtggtc cggcgtgtg tctccggcca cggtgacgc cttcgccgtg 120
aagtccgtgg accggtcctt cctcggcgac gacctggacc gcgcgctggc ggagctggag 180
ccgaagctgg cgcggtctgc ggggggagag ggcgacggga acccgggcgt cttgcaggtg 240
cgcgccgtct acgaggacga cgcttgacg cacacggtca tggacctctg cacgngccc 300
gacctgctgg actggatccg nctccggcgc ggcgcgccc tgcccagacc cgacgcgcg 360
cgcgctcgtc c 371

<210> 19850
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-G4

<400> 19850

cggacgcgtg ggcggggagaa gaggataaga ggaagcgagt gggactgtga gtgagttgga 60
 aggagggggg tggcaatggc gttgcggaat ggtggtggtg gtggtggagc ctgtcccgcg 120
 gcggttgtgc tgggtggtgc ggcgcgtcgc gcgctgctgg gcgccgggggt ggcggcggcg 180
 accaagttcg acgacgtggt gcagcccagc tgggccaacg accacgtggt gtacgacggc 240
 gacctcctca agctccgcct cgactccagc tccggcggag gggttcgtgc aaggaccaag 300
 ttcctgtacg gcaaggccag cgccgacctc aagctcgtgc ccggggac 348

<210> 19851
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-003-Q1-K1-E7
 <400> 19851

gccaaaccatc taccagcgac tcagcgagcg agagcagcac aactgcacg cagctagcta 60
 ggagcagcag cagcggcggc gatggcggcc tccatgatct cctcgtcagc tctggcggtg 120
 gcgcctcagg gcctgccgcc cctcggccgc cgcgcctcct ccttcgccgt cgtctgctcc 180
 aagaagaaga tcaagaccga caagccctac gggattgggg gtggcctgac cgtcgacgtc 240
 gacgccaacg ggagaaaggg caagggaag ggcgtgtacc agttcgtcga caagtacggc 300
 gcgaacgtcg acggatacag cccaatctac aacgaggatg actggtctcc caccggcgac 360
 gtctacgtcg gtggaaccac tgggcttctg atctgggccg tcaccctcgc tgggatcctc 420
 ggcggcggcg cctcctcgt ctac 444

<210> 19852
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-003-Q1-K1-G6
 <400> 19852

gtcacacaca cacacacaga caagtggttt ccaaagccaa gtgtgtgtac tagcaaccgg 60
 ctagctcggg cggcagcagg cagccatcat gtcggaggag aagcaccacc acttcttcaa 120
 ccaccacaag aaggacgagg agcagcccgc cggcgagtac gggactccg agaccgaggt 180

ggtcaccgcc accggcgagg gcgagtacga gaggtacaag aaggaggaga aggagcacia 240
gcacaagcag cacctcggcg aggccggcg catcgccgcc ggcgcccttcg cactctacga 300
gaagcacgag gcgaagaagg accccgagca cgcgcacagg cacaagatca cggaggaggt 360
cgctgccgcy gcgccgctcg gcgccggcgg ctacgtattc cagagcacc acgagaagaa 420
g 421

<210> 19853
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D12

<400> 19853

caaatctgca acatcaatta tctaactcca ataaccatga agctggtgct tgtggttctg 60
gctggcattg ctttagtatt aagtgtttct tgtacacaga caggcggctg cagctgtggt 120
caacaacaaa gccatgagca gcaacatcat ccacaacaac atcatccaca aaaacaacaa 180
catcaaccac caccacaaca tcaccagcag cagcaacacc aacaacaaca agttcacatg 240
caaccacaaa aacatcagca gcaacaagaa gttcatgttc aacaacgaca acaacaaccg 300
cagcaccacc accaacaacc acaactacag caccaaccac aacatcaatg tgaaggccaa 360
caacaacatc accaaccatc acaaggccat gtgcaacaac accaagagag cccttaacca 420
caccaaggac agagccctga gcaacaa 447

<210> 19854
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D2

<400> 19854

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ctcgctcgc ttcgcttctt tctccgcag tctcgtctc gaattcgtc gcggtgggag 120
aaatcggggc gcgaggatga ccgtgatcga catctcacc cgggtggacg cgatctgcca 180
gaagtacgac aagtacgacg tcgacaagct caacggcgcc aacgtcgccg gcgacgaccc 240

gttcgccccg ctctacgcgt cgcgcgacgc ggacatcaac caatgcgtcg ataaagcgga 300
aacggcgaag caagagaaga accggggccgc ggtggtggcg cttaacgccg agatccggcg 360
caccaaggcc aagctcctcg aggaggacct tccaagctg cagcgctcgc ccgttaagaa 420
ggtgaaaggg ctgacaagag 440

<210> 19855

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D3

<400> 19855

ggaccatact gtttctatct cttggtgccc tttaaggtct catgaggttc cactctctaa 60
cgggctctgc aagaaaaact caactaatgg catggtttct gctgttacct cgatgctctt 120
atcactcgga gaggaccccc tcaggaaaga gcttttaggc actcctcagc gttatgtgca 180
gtggctgatg aagttcaaag catgtaatct actagacgtg aagctgaatg gttttacact 240
tagtaatgtt agcttatatg agaggacagg tggaggcaca actgatcatg gagcaatccg 300
atcggagctg cacttgccat tttgtgctca atgtgaacac catcttctgc ctttctacgg 360
agtagttcac aatgggtact ttggcaatgg gagcggagaa ggcattgatc ggtcgcattt 420
tcaggccgtg gttcatttct acgggtgc 448

<210> 19856

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D4

<400> 19856

gaccgcgcgt acgccaagaa ggggtacaca ggttgcattt gtacatttaa actcttatta 60
tgcaagaaat tgtcccgctg ccaaaaagga ttcttcagca cgtggagctt cgaagttacc 120
aaaagaatat gcagaaccat gggactatag ccatgattat cctgttactc tcccactaag 180
gaagccctac tctggaaatc ctgaaattct ggatgaggaa gaatttggag aatcttctgc 240
cagcaagacc caagatgatg aattatcttc agcagaacaa cttggaataa tggattattg 300

cctcgaatca caagtccttt

320

<210> 19857

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D6

<400> 19857

gcaagaagtg gtacacaggt tgcatttggg caaggaaact cttattatgc aagaaatttt 60

cccatgcccc aaaaggattc ttcagcaggt ggagcttcga agttaccaa agaatatgca 120

gaaccatggg actatagcca tgattatcct gttactctcc cactaaagaa gccctactct 180

ggaaatcctg aaattctgga tg 202

<210> 19858

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D7

<400> 19858

ctctaccgtt cgtgaaccaa gggcgggcgg atggatcatc cacatccttc ctgaataggc 60

gtgcaccgtt ctggatcgct acaatatcgc gtgtgccgct gccgactcac aagatgacgg 120

actaaactgc ttaagcggct caccgaggcc ggcaaatacc tatgctgcat ggtgactcaa 180

gttactcatg atgcacattc aaggcttatt cactgggtgcc gtcaggcgcc tggctgctgg 240

gatgcataat gatgcctaatt attgcgagac cgtctgtcaa gatgacgact cactattttc 300

tggac 305

<210> 19859

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D9

<400> 19859

gtgttcctgt aaagcctaaa aaggaaaata ggcttttggg tctgcctttt gaattatctg 60

ttatgggtat tttattgctc atcgtattag gtggtttcta tgtgggccat tgtgtatggg 120
cggcagctga agcgtactcc gggccttcac ttgtgttgac atctc 165

<210> 19860
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E1

<400> 19860

acgcggacgc gtgggctgag aacagcagtg tctcaactga agcagagaac tcccaggag 60
aggcttccat tgcagtgaat ggttcttcat aaacgtctac caatggtagag caggtggatc 120
ccaagactga aactagcaca tccaccacta acgtgcacac tgaatctcaa ggggctgatg 180
gcagttctgg atcaaataac tcaattggta acggacctga acaaaccggt gaaactgaca 240
ggcagtgata ccactatcta gacacgaaca ttgttttagt ataaagattc gtgttctgga 300
gattgcagag gctagtactg caccaagata aactgttgac attgtggctt atggtgattc 360
taagcgatac tgctgaagta caattgtgca ca 392

<210> 19861
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E10

<400> 19861

ctggacgtca gcctagcaat tagctcatcg actccagatt ggagaactcg acaccatgaa 60
ggtgctgac gttgcccttg ctctcctggc gctcgctgag agcgccgcct ccagtacaag 120
cggcggctgt ggctgccaga caccaccgtt tcactaccg cctccgttct atatgccgcc 180
tccgtttctat ctgccgccgc agcagcagcc gcagccatgg caatacccca ctcaaccacc 240
gcagctaage ccgtgccagc agttcggatc ctgcggcgtc ggcagcgctg gcagcccgtt 300
cctgggceaa tgcgtccagt tctgaagca ccagtgcagc ccggcggcga cgcccta 357

<210> 19862
<211> 440

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E11

<400> 19862

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 cgaggtactt tggaagagtt cctagagcag ctttctatag atgctactac ttactcctg 120
 agcatattta ttccaaattg gatttcagaa ttccggggca aatttaagtt ggctatttga 180
 aacttacaga gcagcgctg gtcctcttgg caatgctgtt tcttatgtaa atgggtgtttt 240
 cctgggacat gtccttttgg atgaacattc agatactctg gaattgagta atctgcgggtt 300
 ggcttttggg gcatatggaa cagagcatgc tattagagca acgaggggtgg aggaattcct 360
 tactggtaaa tcaactcactg catcagtggg acttgtggca attaaattac taagagaaac 420
 ggttgtacca atggagggaa 440

<210> 19863
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E12

<400> 19863

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 tcaactggctc ctagtgccat tattccacag ttctccctc cagttacttc aatgggcttc 120
 gaacaccag ctgtgcaagc ctacaggcta caacaagcgc ttgcggcgag cgtcttacia 180
 caaccaattg cccaatttca acaacaatcc ttggcacatc taaccatata aaccatcgca 240
 acgcaacagc aacaacaatt tctaccagca ctgagccaac tagctgtggg gaaccctgtc 300
 gcctacttgc aacagcagtt tcttgcattc aaccaattt ggctctggca aacattgttg 360
 cattccaaca accaccacca t 381

<210> 19864
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-E2

<400> 19864

gccaatttg cagataatag gatgtctcta tcttggaacc aggaagagaa agataaccgc 60
aacttgcac aaagaaactt ggaaagggct catagccttt cagatgggtga tactaactat 120
gaagatcaca tctcttctgt gaatagtggga tgccattcag acaatgaggt caataataga 180
ggacatactt caaatgatgt tgagcacatc gaaacatgct ctagtttgga taaacaagcc 240
agcgaccaaa taggaaaacc tgcaaaggaa tattctgatt cttcaaacaat gtcattctta 300
aatgcattcg aggatccaac aggaattcct cctgagtggga tgccaacaaa tgtagtggtg 360
cctttattga acctgggtga caaagtattc cagctaaagc gacgggggtg gatacggaga 420
caggnttctt ggatatac 437

<210> 19865

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E3

<400> 19865

cggacgcgtg ggtccacggc cgcgcttgcg acacccatcc gccgccacgc catggccaag 60
tacaacgtgg tgcagaagaa caagcgccag tgcaatcagg accgcaagcg cgccgtgcat 120
ggggagcccc ggaccggcaa gctcaagcag cggaccgcgc ccgtctccat gtccggcaag 180
cggaagaaga agctcgagcg ccgcctcaac cggaagcaga aagaggctgc gatgattaag 240
gcgctggaga acaacatggg ggatgtcgac atgatctcag ttgaagggtc ttcagaagct 300
gcaaagggca agtcccaagt gaagttcagt gtgaagaaaa actcaagaat acagataaag 360
agattaaagg gcaaaa 375

<210> 19866

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E4

<400> 19866

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 tttagcggcg actctgctgg cgttcgcgct gacgtttcag gcctgcctcg ccgggaggag 120
 gctcaccgcg ctggtgcagg agccggccat aaccatgagg taccacaagg gcgcgctcct 180
 gtcggggccc atcgccgtca acttcatctg gtacggcgac ttctcggcgc cgcagcggtc 240
 ggcgatcacc gacttcgtgt cgtcgctgac ggcgggcgcg cagccggagc cgtccgtggc 300
 cacgtggttc aagacggcgc gcaggtacta caccatctcc aaggtgccgt tcccggcgct 360
 gcgcctcggc tcccacgcgc tcgaccggaa ctgctcctc ggagggcgcc tgacggag. 418

<210> 19867
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E5

<400> 19867

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 ggggcgcgcg cttgaactta cccttgaacc gaacttcggt ttccggtttc aatccaagag 120
 ccagtacctg gtcggcaaga tcgacatgca gatcaagctt gtgccaggca acttcgtggc 180
 acggtcacca acttctacct gtcgttccaa ggcgacacgc acgacgagat cgacttcgag 240
 gtcctgggca acgtgagcgg ggagccctac acgctgtaca ccaacgtgtt tacacgcgga 300
 cagaggcagc gggagcagc 319

<210> 19868
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E6

<400> 19868

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 ggcggatgac accatgaacc tcggtggaat taagaccagt tcagtagaga tagaacgggt 120
 gtgcaacaga gctgacgagt gtctgctaga aacagcagca gttagcatca aaccttccgg 180
 tgggggacca gaacatctag ccattcttggc ggtgctaaaa gatagatcgg cccagtagca 240

cgtgaatctt ctcaagagga agttccagac tgccattcag aagaacctca atcctctctt 300
 caaggtgagc tatgtcaaag tgcgcgctga gttcccgaga acggcttcga acaagctgct 360
 gaaaagggtt ctggaggatc agctcgcgca ggaactctta aa 402

<210> 19869
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-D10

<400> 19869

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 gatcgctggtt gctagccagg tgctggatcc gtagcggcgg cggcggccat ggacaagagc 120
 atgctcggcg acctggacgg cctccccgag gaggacaaga tgcggatggc cgccatgac 180
 gaccagctcc agatccgga cagcctgaga atgtacaatt cgctggtgga gaggtgcttc 240
 acggactgcg tggacacgtt cgggcgcaag aacctggaca agcaagaaga gtcgtgcgtc 300
 cgncggtgcg cggagaaatt cctgaagcac tccatgaggg tcggcatgaa gttcgccgag 360
 cttaaccagg gtgtggccac gccggactaa gaaacacgc 399

<210> 19870
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B3

<400> 19870

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 gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcgcc 120
 cgtggtggag accccgcgcg cggcgcgtgt gcccgaggag tctgcccccg ccgaggccga 180
 ggccgaggcc gaggtgctg ctctgctga tcccgaggag cttcccgcgg ccgagcagca 240
 ggcagccgcc gagggcgagg ccgcggctcc tgctggtgcc gaggagcccc tcgcggccga 300
 accggccgcc gagggcgagg ctgctgctcc tgctggtccc gaggagactc ctgcggtcga 360
 gc 362

<210> 19871
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B4

<400> 19871

acaggatggt gcaccaacag agtttataga atcgaagagg cgtccaaatc acttgatgtc 60
 atatgaatth aaattctttc gacaaaacac tatagtggta tttatgttca gaacaatggt 120
 cgtatatgat gcaccacaaa tcatccatgt tgatgctggt aatgacatgg agcacttgct 180
 cggatgcaat tggctcgtat atacacatca gattgttcta ctg 223

<210> 19872
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B5

<400> 19872

ggcggacact tctaaaatag tattagcaca atatatatag tgtagtagaa gaaacagaag 60
 caaggcgagg ttctattcgt gatcgtaga tttttggaag gctgcttagt tgattggtgg 120
 actgggacct atctagagct gcttgtgatc ctcatcctc agtaacttgt gcgtcatcta 180
 tttttgccgc caaatttgct gaagtatgcc aggattctag acatgatgtg accctgcgtg 240
 cttaaggaga tataagtctg caatgcagaa gattgtaacc caatacaaac aaaaaacca 300
 gaagtttggt catgtggagt tctatcattg taatctgcac attatatcat atccaagaac 360
 ttgcattatt ccttttcaaa aaaaaaaaaa agggccg 397

<210> 19873
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B6

<400> 19873

acatagacgc catcctcgaa ctttattaga tgagattgga ctgctatctg tagcactccg 60

cggccatcag cccacatgct taaggctcatg tatcttagct aatctgcaat tccatagatt 120
 ttgttagcga actttatcac cttggcttgg ataatgaaga acggtgatgg gaaattagga 180
 tgcactctac atgactcaga actggctaaa cgtaaggctc gagtctatat ggtatgctga 240
 gctagacatt catgattgac tcagagcatg cctacttcga cattgaccat acggactatg 300
 atggactata cctacttgcg gaacctgtac ctaatcgtca gactgggact cgcgctgaac 360
 ctaggctcta gacacttgaa ctatgg 386

<210> 19874

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-B7

<400> 19874

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 tcgctcgct gctgctcacc gtcacgtgg ctgcggcggc gtcgctgctg ctgctgcttg 120
 cgccgtcggc ggcggagctg acgcgggtgg agcaccgcc caagaacgag ggctcgctcg 180
 ccatccttgc agttggcgac tgggggcgcc gggggcagtt caaccagacc ctgctggccc 240
 agcagatggg agtggtgng gagacgttgg acatcgactt cgtcatctnc acgggcgaca 300
 acatctacga cgacggcatc gncaacacca gcgacccct cttcaaggag tgcttcacca 360
 acatctacac cgcgcagagc ctnacagagc cctggtacat cgtnctcggc aaccatgact 420
 acacgggcca cgcgct 436

<210> 19875

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B8

<400> 19875

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 ttgttttaca gcatatcagc aaatgggtat ttatggcact tattagcatt atgtcactcg 120

ccacaagctg gattactgga aataccgatg aaggatgagt aaccctgaaa aggttttact 180
 ggcaacacat gtcttgggaag cctgagttca gctaccatca accatggggg gcacatcact 240
 tccactttctt gaacttgccg ccgccgaaca tgccgtgccc gtgcttgcca tgcttgaact 300
 tgccgtgccc gtgcttgaac ttgccgtggg ggccgtgacc atgcttgaac ttgccggggc 360
 caccatacc 369

<210> 19876
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-C1

<400> 19876

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 agacatgggc cttecgggcg gagctgttgc cctgcttctg ctctgttctg tccacggagg 120
 ccagcgagca gcagaggccg gcggggacgc gttcgtgagg gtccagggca cccgcttcgt 180
 gcaggacggc aagccgttct tcgccaacgg gttcaacgcc tactgggtca tgacattcgg 240
 cgccgacccc gcgcggaggg gcaaggtcac ctggcgctc agccaggccg ccggcgcccg 300
 cctctccgtg gccaggacgt gggcgttcag cgacggcggc ggcggcggcg gcagcgcgct 360
 gcagtactct cccggccgct acaacgagaa caccttncag gggctggatt tc 412

<210> 19877
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-C10

<400> 19877

gcaaaatatt ttagctgcca ttgttggtac actattgtgc ctcttatgc tccttgggtct 60
 ttctgcaagt gctgctacgg cgaccatttt ccacaaatgc tcacaagctc ctatagcttc 120
 ccttcttccc ccgtacctct caccaacggg gtcttcggta tgtgaaaacc caattcttca 180
 accctacagg atccaacagg caatcgagc tggcatctta cctttatcac ccttggttct 240
 ccaacaatca tcagccctat tacagcagtt accttgggtg catttattgg cacaaaacat 300

taaggcacaa caactacaac aacttgtgct agcaaacttt gctgcctact ctcaacaaca 360
gcagtttctt ccattcaacc aactagctgc attgaactct gcttcttatt tgcaacaaca 420
acaactacca ttcaaccagc tatctgctgc ctaccccca c 461

<210> 19878
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-C2

<400> 19878

cagtgattcc ttccatttta agtggataaa caagaaatgg aaagaagggtt ttcattgtgac 60
tgcaatggca acatcaggca atcgatgggc tatagtcattg tcccgcagtg ctggattttc 120
tgagcagggt gtggagttgg acttcttgta cccgagcag ggcatccata gacgctggga 180
caatggcttc cgtattactg caatggctgc cacgatggat cagtctgcgc tgatcctaag 240
caagccaagg cgtcgccccaa gagacgagac acaagagact ctgcggacta cacagtttcc 300
cagtcaacat gtcaaggaca agtggggcaa gaatctctac cttgctggga tatgctatgg 360
gcgaaccgtg gctaacaatc gtccgttgct gacctaactg gtgggt 406

<210> 19879
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-C3

<400> 19879

aatccacttc gccggcgatc cgtctcatct cgtcgcgtct ccggcgccgg cagacacggg 60
taacgcggct ccgagatcgg cgggcaggat gatgatgctg atcgattgct cggggtgccg 120
taccocgttg cagctgccgc acggggcgcc ctgcatccga tgcgccatct gtggggccgt 180
cacgcacatc gccccgccc ctcccgccga gcccaaccgc ggcgccgtac aaccggcgcc 240
gggggtggcg ccgccgcgc cgccggtgca cggacggaag cgcgccgtgg tgtgcgggat 300
ttcgtatcgg tactcgcggc atgagctgaa gggctgcac aacgacgcca agtgcattgc 360
ccacctgctc atgacgcgt tcaacttccc cgacgactcc atcatcatgc tcaacgaaga 420

ac

422

<210> 19880
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-C5

<400> 19880

gactagttct agatcgcagg cggtcacttg cgatctagaa ctagtgacag aaggacatac 60
acattgctag atgatttaaa aaatgtacta aacttctgta actaatacag atcgggtatgt 120
actgtaacag ggtccaagct gaacaaaaat gaactggaaa atacttagtg acgggaatat 180
gacattaaga aatgctttct gcaatacagg aaatatgata tctgggttaa gactatttgg 240
ctcaatacta atactctgac tcttaaatta tacgagtgcg acittatgaa taggtattcc 300
tg 302

<210> 19881
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-C6

<400> 19881

cggccagctg ctccgcgtac ctggccgcgg tgtgccaggt gctggtgaag gtggtgttga 60
ggcgggacat ctggttcaag ctgacgtcga agcagcccg cggggacgag aagaaggacc 120
cctacgcaga cctgtacgtg gtgcgctgga cctggctcat ggtgacgccc atcatcatca 180
tctctgtaa catcatcggc tccgccgtgg ctttcgcaa ggtgctggac ggcgagtgga 240
cgactggct caaggtggcc ggcggcgtct tcttcaactt ctgggtgctc ttccacctct 300
accctttcgc caagggcatc ctggggaggc acggcaagac ccccggtgtg gtgctcgtct 360
ggtgggcctt caccttcgtc atcaccgncg tgctgtacat caacatccca cacattcacg 420
ggccccgcgg caagca 436

<210> 19882

<211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-C7

 <400> 19882

 aacaatctgg tgatgctgct ttcagcttct acatttggtc gataagatgc agccatttat 60
 attggttata gtaggggtgta tgtatatagt aggatgtacc atcaaaatcc aatgtatcat 120
 gtatagtggg taggcaatac tccgtaatta tgtgcttgta agttaataag aggccagctc 180
 gtactcctag aaaacaaaac ccgtgatcta tggcatgggg cattctcatt cccttgtagt 240
 tcaggactag tatggattgt aaattcaacg gtgaagggtg tgcaacattt attcagtaaa 300
 gtatccttgt tgaagaattt gt 322

<210> 19883
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-C8

 <400> 19883

 gagaaaatgg cgtatttgtc ccgcacagcc gccgccgtcg ccgtcgccgt gaggtcggcg 60
 gtccgctccg cacctctcac tggccgcgtc ctccgagcgc cactgccttc ccttgcctcg 120
 ccttcgctg cccggtccgc ccgaatcctc cgcaggac 158

<210> 19884
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-D1

 <400> 19884

 ccgattccaa tctggaggta cacgtacgcg tccgaacaat ctggtgatgc tgctttcatc 60
 ttctacattt ggtcgataag atgcagggat ttgatattgt ttatagtagg gcgtatgtat 120
 atagtaggat gtaccatcaa aatccaatgt atcatgtata gtggttagag caatactccg 180
 taattatgtg cttgtaagtt aataataggc cagcttgtac tcctagaaaa caaatcccat 240

gatctatggc atggggcatt ctcattacct tgtacttcag gactaatatg gatcgtaaat 300
tcaacagtta acgtgttgca acatttattc attaaagaat ccttggtgaa aaattttgaa 360
acacttcaat aatat 375

<210> 19885
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B2

<400> 19885

ggattccccg gcgagaccgt caccaacgac gagatcgccg ccgacctcaa ggagcacgtc 60
atcaagcccc tcatccccga gaggtacctg gacgagaaga ccatcttcca cctcaacccg 120
tcggggcgct tcgtcatcgg cgggccccac ggggacgccg gcctcaccgg ccgcaagatc 180
atcatcgaca cctacggcgg ctggggagcc cacggcgggg gcgccttctc cggcaaggac 240
cccaccaagg tggaccgcag cggggcctac gtcgccaggc aggccgcaa gagcatcgtg 300
gccagcggcc tcgcccgcgg ctgcctcgtg caggtgtcct acgccattcg ggtgccggag 360
cccctgtcag tgttcgtcga ctctacggc accgggacca tccccgacaa ggagatcctc 420
aagatcgta aggagaactt cgacttcagg cccgggatga tca 463

<210> 19886
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-002-Q1-K2-H9

<400> 19886

gaaaattcca gcgagcagc gctctaagcc gtttttcctc gtcctcgatc cagccccgtg 60
ccgcttccag ctccgatcga tctgatccct cccaccacc acgcccattg cggaccaact 120
caccgacgac cagatcgccg agttcaagga ggccttcagc ctcttcgaca aggacgggga 180
tggttgcatc acgaccaagg agctgggaac tgtcatgcgt tcaactggggc aaaaccctac 240
agaggctgag ctccaggaca tgatcaatga ggtcgatgcc gacggcaacg gcaccatcga 300
ttttccagag tttctcaacc ttatggctcg caagatgaag gacaccgact ctgaggaaga 360

gctcaaggag gcctttcgtg tgtttgacaa ggaccagaac ggcttcatct ctgccgncga 420
gc 422

<210> 19887
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A1

<400> 19887

ctcagagcga agctcaggta gacaaggcaa tatctttgaa gaatttcagc catcagcaga 60
tagcacctcc caagccagat atgctcgagc ttcagatcga gatcctggtg atccttcaac 120
aagtggacct gagaaagagc tgacctctga agatgaagtg gctcgtttac tgaactgcac 180
tgaccactat tcagcattag gtttccgtcg atatgagaac atagatgtat catctcttaa 240
gagagaatac aagaaaaagg ctatgttagt ccacctgat aagaatatgg gcaatgataa 300
agctgctgat gcatttaaaa agcttcaaaa tgcataatgag attcttcttg attcactgaa 360
acgcaagaca tatgatgatg 380

<210> 19888
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-A10

<400> 19888

gtgttcgaag ccattgaag taactggagg gaggaactgt ggaataacca attgcccaat 60
tacggcaaca atccttagca catctaacca taaaaccat cgcaacgcag cagcaacaag 120
cactgagcca cctagccgtg gtgaacccta tcgcctactt gcaacaacag ctgcttgcac 180
tcaaccact tgctntggca aacgtagctg cataccaaca acaacaacag ttgcaaca 238

<210> 19889
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A11

<400> 19889

atgCGttcgc tagcagcata gacagcaciaa tactgtacca acaatgacag ccaaaatatt 60
gagcttcctg atgCGcctcg gactatccgc aagtgatgct accgcaacca ttctcccaca 120
atgctcaciaa gctactataa cttcccttat ttcccatac ctcttaccaa ccgagtcttc 180
aatgtgtgaa aacccaattg ttcaacccta caggatccaa caggcaatcg caacatgcat 240
cttaccatta tcacccttgg tccttcaaca accgttagcc ctattaaagc cggtaccttt 300
ggaccaattg gtggcaccaa acaatctggc ccaacaacta ccaccacttg tgctatcaaa 360
ccttggtgca taccctcatc cacaataagg tctttcattt gaccactgg ctgtaatgaa 420
ctctgctgat tatttgcaac aaccattacc ct 452

<210> 19890

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A12

<400> 19890

accgtcttga ttcccggacg agaccaactg cacatagaag cacaatagtg taccaacaat 60
ggcagccaaa atatcttggc tccttatgct ccgtggtctt tctgcaagtg ctgctacggc 120
gaccattttc ccgcaatgct cgcaagctcc tatagcttcc cttcttcccc cgctcccttc 180
accaccggtg tcttcggtat gtgaaacccc aattcttaaa cctccagga tcccacaagc 240
aatcgagct tgccatctaa cctttataac cctggttctt caaccattat taaccctatt 300
acaacagtta ccttttgtgc atttattggc aaaaaa 338

<210> 19891

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-A2

<400> 19891

aactagttct ctttgtgctt ctagtccct ctgaaccatc ttaccgtaac cacctctgcc 60

aggatcataa tctgtacggt actcatctct cacttgtcca ccacttcgtc cacggcccca 120
 ttgcctgcct tcttcaaagc cccaatcgaa atcaacacgg attggacgat cgtcaagcat 180
 cgttccactg atgtatttga cagcatcttc agcatcctcc ctggagtagt acagtacgaa 240
 gcagaaaccg catggggtct tagagttctt gtcgagcccc atgatgatct tcttgatctc 300
 gccagcgcgg gagaagagct cgtaggcctg ctctnctgtg gtgtagaaag acatattccc 360
 aatgtacagc gttgtcgacg catgc 385

<210> 19892
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A3

<400> 19892
 ggatcgacat gtttatctcc ggagacgctc cgaagagcgc gtcggatttg agcttcccta 60
 agggccacag cgagcttagc tctagcagct gcagctttga cggcctcctc aactccataa 120
 tcaaagtgga gaaggacgat gcttcttcca gcgatgacct gggatgacgac ttgtactccc 180
 tgggtgcctg tatatgatcg ctaccttcca cgtatctgca tctgtgttaa tctcccattg 240
 tatgctgtgc agctagtgtt aatcttaggt agaattgtag ctgtgcgcct atctttgctt 300
 gtcacagcc aagaaaaaaaa aaattgatgt ctgcacgtga tgtgctagca gtaagatatc 360
 tggatttgtg g 371

<210> 19893
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-A4

<400> 19893
 cactaacgaa cgaactcttg ctccgatcac gagctagctg aggtcgacga tggcggctgt 60
 gctgaacagc aggaagacgc cgcaggcggg ggtggccgtg ctggtggcgg cggcgctgct 120
 ggcttcgtcc gcttcggcgg cgatcacctg cgggcagggt gggtcgtcgc tggcgccgtg 180

catcccgtag ggcacgggga gggccagcgc gctccccgcg tcgtgctgca gcggcgtaa 240
gagcctcaac agcgcggcgc ggaccagcgc ggaccgccag gcggcggtgcc gctgcctcaa 300
gagcctcgcc aacagcgta agagcgtaa catgggcacc gtcgccacca tccccggcaa 360
gtgcggcgtc tccgtcggat tccccatcag catgtincacc gactgcaaca agatcagcta 420
agttacgacg ac 432

<210> 19894
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A5

<400> 19894

caaagaaggt gaaattacag tagaggaaac agatgagaaa atagaatcta aagttactgc 60
tgaacctgta atcggggaga caactgaagg tcaaactgca gctggagaac cagttgaaga 120
agctagaaca gctgaggaca tggtagaaga tgttaagggtg ctagatgata aatctacagc 180
agctgagaaa cctgtagaga atgccacagt tgtggcacat gagaattcga ctacagatga 240
gaataactctg aaggatgcga ttgtcgcgcc accagatgca tataccacca acgccggaaa 300
aactgctatt ggtgccac 318

<210> 19895
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A6

<400> 19895

acgaactagt tgtctttgtg cttctagttc cctctgtacc atcttaccgt aaccacctct 60
agcactgtca taatctgtac ggtactcatc tctcacttgt ccaccacttc gtccacggcc 120
ccattgcctg ctttcttcaa agccccaatc gaaatcaaca cggattggac gatcgtcaag 180
catcgttcca ctgatgtatt tgacagcatc ttcagcatcc tccctggagt agtacagtac 240
gaagcagaaa ccgcatgggg tcttagagtt cttgtcgagc cccatgatga tcttcttgat 300
ctcgccagcg cgggagaaga gctcgtaagc ctgctcctcc gtgggtgtaga aggacatatt 360

cccaatgtac agcgttgtcg acgcatgcag cgttgccctca tactccttct gtgtgccctt 420
gaatcggcgg tcc 433

<210> 19896
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A7

<400> 19896

ggcaaggcag ccatgaaacc ccctcagctg cgggcagggg agggggcctc ctgggctgac 60
gaggtcaagc aggccttccg tgagaaactc cggcgctcct acggcgccgg agctgcctcc 120
gccacaccgg aggccaggcc ggccggcgaa ccaagccgtg gcgctgagtg ccgcggtctg 180
gcggccgagg accccataag gagagtcatt ttcttggtc cctgggggtca cacataagaa 240
cacaaaccgg ccggccgaga tctgggcatg caagcttgca tggccatgtc ttggtcagtc 300
agatctgcaa acaaccaaac tgtaaaaaag aactggagcc tgtcttgga atcatggagc 360
ttgctgctgc ttgcacccat gaaaaacatg aacgcatgga gagctgggta actagctagg 420
tagatagata tatcatatat gg 442

<210> 19897
<211> 207
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-A9

<400> 19897

ccgggacgac ccacgcgacc gctccggagg ctccaccact agcaaccn gn gcagcgagcc 60
cgccccgacc acngccaaga cgaggggagg cgacngggnc gacgagaaca acggcgggac 120
cggcggggcc atcgccggag ccganaaccg naacgacgag gcggacaccc gccccacagg 180
cggaacacgc aacccacgc gcgacca 207

<210> 19898
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-B1

<400> 19898

cggaacgcgtg ggggcctgag gggctgggct gaagttgaac catgagtgcc gtcgcggggtt 60
cgtcgtcgct gaacccgaac ggcgcgtctt tcatcccggc ggcgctgctg caggtggagg 120
acttctcgcc gcagtgggtg gacctcatca ccaccaccgc ctggttccgc gaccactggt 180
cccgcgagca cgcccacctg gatgagatag ccgagcagct cgagttggtc gccctccttg 240
cctacgatga ggatgaggac ctcttctacg gcgagcaggc ccccgccgcc gncgccgccc 300
ttaagacaga ttccgtgctc aaggcgctga acttgggctc cccgaagagc ggcgacgccc 360
cgcggggggtt ccgggagaaa ccagggcact ccgagaag 398

<210> 19899
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-B10

<400> 19899

catttaacca attggaagaa gttgttgttg ctgagagtag gcagtagcta gctggctgaa 60
tggtgatagt tggtgctgca aataagcagc aacaacttct tccatttaac caattggccg 120
cactgaaccc cgctgcttat ttgcagcagc aaatactact accatttagc cagctagctg 180
cagcanaccg tgcttcttct ttgacacagc aacagttgct gcctttctac cagcagtttg 240
cggctaaccc cgcaaccctc ttacaactac aacaattggt gccctttgtc caacttgctt 300
tgacagaccg agcgggtctcc taccaacaac acatcattgg tggtgccctc ttttagattg 360
cttattagtt gtaattcaat aataaagttt tttggatgat gtatgtggcc aaccagaatt 420
aagaagttac atttccagat tt 442

<210> 19900
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B11

<400> 19900

gcaacgtaga aagcacaata gtgtaccaac aatggcagcc aaaatatttt gcttccttat 60

gctcgttggc ctttctgcaa gtgttggtac cgcaaccatt ttcccacaat gtcacaagc 120

tcctatagct tcccttcttt ccccatacct tttaacaacg gtgtctttaa tgggtgaaac 180

cccaattggc taacccttca ggatccaacc aggcatcgca accagcattt taccattatt 240

acccttggc cttcaacaac cgtgagccct attacaggaa ttacctttgg gccatttggg 300

gggacaaaac attagggcac aacaactaca acaacttgtg ctagcaaacc ttgctgcata 360

ctcttagcaa catca 375

<210> 19901

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B12

<400> 19901

ctatcagtag catcaatcat cattcatctt attagtatag gcaccaaatac aaatctgcaa 60

catcgattat ctaactccaa aaaccatgaa gctgggtgctt gtgggttcttg ctttcattgc 120

tttagtatca agtggttctt gtacacagac aggcggctgc agctgtgggc aacaacaaag 180

ccatgagcag caacattatc cacaacaaca ttatccacaa aaacaacaac atcaaccacc 240

aacacaacct caccagcagc agcaacacca accacaacaa gtatacatgc caccacaaaa 300

acctcagcaa caaccagaag tgcattggtc acaaccacca caaccaccgc agcaccaaca 360

accaccacca caaccacagc accaacaaca acctcaatgg gaaggcgac aacaacatta 420

ccaacaatca ccagggcatg tgcaac 446

<210> 19902

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H8

<400> 19902

cgccacaaa tgggtggacta gctgtccaga caatgggtag tgcctctcaa gttgcttttg 60

gttaccacagc agtccagcta ccaacacttg aaacggggctc ttcattgggca tttggtgctt 120
 cctcgtctgc tcatgctgaa gatgagaaaa aggctgatag aggactctct cttatggggtt 180
 ctgccataag gccaggcatc gcaccaaattg tcaaatttgg agggctctgga tcatatccgg 240
 atcttccctg ggtttctacc atcggcgccg gaccaaattg cagaaccata tcagggtgtga 300
 catacaagtt tggtagaaat gaggtaaaga tagtatgtgc ttgccatggc actcacatgt 360
 ctccggagga gttcatgcgg catgcaagtg cagatgctcc ggcccaagat aatagtgc 419

<210> 19903

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G4

<400> 19903

cggaattccc gccgcttcta aaccatcgat ggattgacta atcaaaacac tctaatactt 60
 tcaccaacgt aataacatgt ctgtcgtgc ttattctaag caacaccaac ccgaaatgac 120
 actacatgca acccttctct cagctcaaa agttcacct acagtataaa agatactttt 180
 taccaatgaa aagaatgcat ctatggaatt ctacaacaca actctgaata cacatacact 240
 tgtgttaccg aagatggata ttatgctcaa t 271

<210> 19904

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G5

<400> 19904

atgaaacaca ccagctgcat cattaccagc tcattccaag aacttgctcg acgcgggggc 60
 accttgacgc actacgagtc ccacatcgcg ttactcatc ctagggctct accgtgtcca 120
 ccatggcatc aatgttagcg atcccaagtt caacattgtc tctcctggat catacatgag 180
 cgtctactac ccgtatacag agaccgtcaa gagactcact gccttccatc atgaaatcga 240
 cgagctcatc tacacctaca tcgagaactc cgaacatata ctcgtgctaa cggacacgac 300
 gaagccggtc atcttctcaa tcgcgcgat cgaccgctg aataacatga caggcctggt 360

ggagatgtac tgctagaacg

380

<210> 19905

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G7

<400> 19905

agaacacagg gcacacgcac tacacgcacg gtacgcagat acatatagtg agaggatggc 60
tatagcttgc acatctatatt aactaactaa ctaactgact agctagctcg atccgcagag 120
caaagcgaaa gcagcaagaa gcaaagcaat ggagaaccct gctagtgcgc tagtgctacc 180
agcgcagttc accaaactca ccttggtaaa cctgtacatc cgtcgagccg ggccgcgcag 240
attcgagata acccaggagg gcaggtgcaa cctggacagg atatactgtg agtaactttc 300
acgtctacga cggccgcggc cctgacacca gccttgtggc ccgcgtgcac gtgatcacca 360
gctaaatcgg gaaccctcac caactgttcg tggtcgtgtt cgacaccgac aggctcaagg 420
gctacacgct cgtcacca 438

<210> 19906

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G8

<400> 19906

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cgtgtgcgag aggggaagaa atgctggagg ggagggcgcg ggtggaggac acggacatgc 120
cggcgcggat gcaggacgcg gcgacctccg cggcctcgcg cgcgctcgac ctcttcgacg 180
tcgccgactg ccgcgccatc gccggccaca tcaagacgga gttcgacaag cggtagcgcg 240
tcgggtggca gtgcgtggtg ggcgccaaact tcgggtgctt attcaccac agcagcggca 300
ccttcattcta cttctccatg gagegcctct cttactgct cttcaaagcc gacgtcgtcg 360
cagacgtcgc cgccgtc 377

<210> 19907
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-G9

 <400> 19907

 gagaaggata gcatgcggtc gacgggtgttg gtggcgcgga gcctgcagaa ggcgtgcgtg 60
 ccgccggcct tgctctcaga cccgacgccc ggcagcctcc agcccacccg cctcgccgcc 120
 catgtcaatg gcgccggctc ctcgtgctct gtttacctcg cctctggctg ccgcgtctac 180
 aggatcgaga tacgactgga tgctagtgtg atgctgtgca aaggaaagga gagcctgtcg 240
 attcctgata atgcacaggt catcagttcg tcggttgtgg atcgctgccc acatcgttct 300
 gagatccaga gtgtagctct cgcagacggc gaagatgact gtctgattct gggaacgggtg 360
 actcatatgg tcatcttate gaatctctgtg tggacatcgt ggctgatgac atcgacagga 420
 cat 423

<210> 19908
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-H1

 <400> 19908

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 gaccaaatag ggaagcagtt gggccagcac aatttactgg taccttggtg tctaatgctt 120
 aagaaagtgc agacaatgtg gttgtggata ttgaaagacc acataacagg cagattaatg 180
 ggatcccagc atctaacgca ctgcctaggt catcagagga tattgaggat ggtgaggtcg 240
 ttggaatcat cacacttgag gatgtatttg aagaactcct acaggaggaa attgtggatg 300
 agactgatga atatgttgat gtccataaaa ggatcctagt agctgctgct gctgctgcat 360
 catcggttgc aa 372

<210> 19909
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H10

<400> 19909

ctgacatttc ggggtgactg aacttgcagt tgatcgattc agcagcatgt actaatctgg 60
atgctttcat gacagaactg ccacgtgata atgaacacaa gattgtaaac atcaataagg 120
aagggcacat gttgacacaa cttactatgg ctgatacttc tgatgttcct atagaagatc 180
ctcttagcat cttaaactcc agaactgatg atcatcgatg cctagagttg agggataagg 240
agctccttgt gtcagagctg caaaatacgc ttgatcaaaa atcaaaaacag ttgggtgaaa 300
ctgaaattaa acttagtgcc atgatggatg aggttaattc tctgaagaaa gaacttgaac 360
aaacccgggg tcttcttgac gaatctcaga tgaattgtgc gcaccttgaa aactgtttac 420
atgaagc 427

<210> 19910

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-H11

<400> 19910

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cttgcggaga aaaagtctac aggcaagaaa tcagcaggtc cggcatctgc tgtcagtgac 120
cctgtttcta cagttgatgc ttcgtatgag aagcttcttt cgtccattcc cgaattcgct 180
gattttggaa agctttttta gtcactctgca cctgtagaat tgactgaagc tgagactgaa 240
tactcagtta atgttgtgaa gcatattttt gatggacatg ttgtgctcca atacaactgt 300
accaatacaa ttctgaaca attgcttgaa caggttattg tttntgttga tgcttctgag 360
gctgatgaat ttttagaagt tgcttcgaag cttttagaat cattaccata tgattctcct 420
gggcagacct ttgtcg 436

<210> 19911

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H12

<400> 19911

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ggactacgag gaggtcgccg cagagggcgg cagtgatgac ggcgacgagg aggaggaata 120
ctgatctgct tgcataaatt tgtttggctg tcgagccagg ttgtggtggt gaaaaacctt 180
tgtttgtgtc ctgggtaatt tttgggtggt tcttccatc atcacttgct gaactgctct 240
agtatttgca tttgtaattg aagtctgtcg ctttaagcac tcttggttct 290

<210> 19912

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H2

<400> 19912

gttcatggcg acgtccatgc tctccgccac caggtgcca ctccagcagg tccagggggg 60
cggcctgtcc gagttctccg gcctcgtcag gagctccgag tcgctgccga tgcgccggaa 120
tgccacctcc gacgacttca tgtccgccgt ctcttcagg acccacgcgg tcggcaccag 180
cggcggcggg ccgaggcggg cgccgacgga ggcgaagctc aaggtggcca taaacgggtt 240
cggccgcatc gggcgcaact tctgcggtg ctggcacggg cgcggcgacg actcgccctt 300
cgacgtcatc gccatcaacg acaccggggg cg 332

<210> 19913

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H3

<400> 19913

gactatggac cactcgaacg ctttaagggc catgtaaact gtaatggtat gaacgtaggt 60
agagattcca gggatcacia gccttcacac aactgacatg agaactgtta cgagcctgca 120
tacgctgagt cagaactcta tgtgacacgt gttctatatg atatgaaccg aaaggaggaa 180
atgtctctga ggaaggcgta ccactaaacg gatcagaccc tgaaagacaa tcacaacact 240

catgagaagt tggcgcataa agttgatact atgacacaag ctctggagtc acatgccaat 300
 aaatct 306

<210> 19914
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H4

<400> 19914

ggctgtagat cacttgaacg ctataagggc catgtaaacg ggaatggat gaacgtatct 60
 accgattcca gtgaagataa agattcaaàc aactcagatg agaagtgtaa cgagtttgca 120
 tctgctgagt cggaggactc ggtgtcaggt gttctatatg atatgttgca aaaggaggtc 180
 atttctctaa ggaaggcgtg ccacgaaaag gatcagagcc tgaaagacaa ggacgacgca 240
 gttgagatgt tggcaaagaa agtagatact ttgacaaaag ctatggagtc agatgccaaag 300
 aaatcgaggc gcgagctagc tgctatggag aaggagctgg cagctgtgcg cttggagaaa 360
 gagcaggata acagggcaag acgttttggt agttcaag 398

<210> 19915
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H5

<400> 19915

aaaaagaact tgaaaggaat tagcacaacc agagaaacga tttgttggct agcatgtgtt 60
 ctcttccagt attgatgttc tatgtcttct tggcctgtat ttgacacaaa ctttagttct 120
 cacagaaaca agtggtagtg tgctctatct gatcttgca atttgttagt cacttgctgc 180
 acaggtcagt gggagggttt ctcaattctt ttttagttc tcatttttaa ttgtaattcc 240
 acctaaatga ttatgtttct gggctatctt tatttattca gactgttttc ttactactg 300
 cctaatttat gtttctaggc tatcttgtgt ggatttcgtg ctccagatca cctccctacc 360
 agatgagtac atcttacttc atgagaatta tcaactttat gttcttccaa aagttctaga 420
 ataaaagaga atggttgt 438

<210> 19916
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-H6

 <400> 19916

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 ccaatgcgta tttcaaactg ttccaagtga aattcaagag aaggcgggct ggcaagacag 120
 actacagggc caggataagg ctgattaacc aagacaaaaa caagtacaac acacccaaat 180
 acagatttgt tgtgcgattt accaacaagg acatcactgc ccaaatacata tctgctagta 240
 tagcgggtga tatggttctt gcttctgcct actcgcatga gttgccacga tatggtcttg 300
 aagttggtct gaccaactat gcagctgcct actgcactgg ccttctgttg gctcgccgtg 360
 tgctcaagat ccgtgggttg gatcaggagt acgagggcaa tggtgaggcc actggtgagg 420
 acttctctgt tg 432

<210> 19917
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-H7

 <400> 19917

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 tgcacctcgg cggctccccg gacctgtgca agcacctggc ctgcagatc ttctccctca 120
 ccgagcgctc catcggcctc atcaactcct cctccagcgg cctcgacggc gcccgccgga 180
 agcgctccgc gggcgacgcc ggcctcgctc cgccgctctc ggccacgccc accagcggcg 240
 tcaccgacgg gccgttcaag aacaccaaga agaggaaggc gatggaacag cggaggcaga 300
 gggtgagctc ggccggcggc gagaaccggc tcgacgacgg ccgtagctgg aggaagtacg 360
 gccagaagga gattctcgga gccaaagcacc caaggggcta ct 402

<210> 19918
 <211> 451
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G3

<400> 19918

aggcaacgaa gttaaatgatg atgttctatc caaagcattc tcacggtttc catccttcaa 60

catggcaagg gttgttagag ataagaggac tggcaagact aaaggttatg gatttgtgag 120

cttttcaaac cctactgact tggctgcagc aataaaagag atgaatggaa agtatgttgg 180

gaatcgccct attaaattgc gtaagagtaa ctggaaggag aggacagatg ttgaggctct 240

gcaaagacaa aagaatcatg tccaaaggaa gcctaaaatt cccaagaaga gtgttcttca 300

caagtagaga tatataggcc ctaccgaggg tgaagggcag ctcatggatg cgttgctgcc 360

ttgggatgat gctacttctg gaatgtcttc actctctgca ctactagggg ggcggaaatc 420

acgcaaaggg ctgttgtttc atgcaaattg c 451

<210> 19919

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-E9

<400> 19919

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cttctgcact tcgtggtaca ggagatgatc cggacggagg gcgcccgtgt gtccgccagc 180

accagacaa ctccaagaac ccaggcaaac cctctacgag aggagctgga gtgcaagagg 240

ctaggtctcc gggtagtggg cggcctcgcc ggcgagctgg gcaacgtgaa gaaggcggcg 300

gccatggact cggacgtgct gagcagctac gtcgccaac tcgcgggagg gatagagaaa 360

gtgaccgang tgctgcggct gaacgaggag ctc 393

<210> 19920

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F1

<400> 19920

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aagctcgaga acaagaacga cttegacctc ggcctcaacc tgctcgagta cgagatgtgg 120

ctcggcgacg acagcatcgc ctccgccgag ctcacacaga ccgtaagat cgagaagcag 180

gggatcacca ggatgcaggt gcccttcagc ttcaggccca aggacttcgg atccgctgtc 240

tgggacatga tcaggggaag gggcacggga tacaccatca agggaaagat cgatgtcgac 300

actcccttcg gcaacatgaa gctgcccata agcaaagagg gtggaaccac ccgcctcaag 360

aaggaggacg acgatgacga cgacgacaac tgaagtgagg actgctgggg cgctgctgtt 420

acctttcacg aaacgcagcg 440

<210> 19921

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F10

<400> 19921

gtccacgagt gcatattcca atgccagtcc gatcgtgagc tcagctcatc tccggtcgtc 60

ctctccccgc acgcaccacc accagcagca gtccatcacc atgtgcggcg ccctgctcat 120

cacgctgac ctcgcgggcg tgccctctc cttgagcggc agccgcgggtg cgcacccggg 180

ctactcggac tacgactaga ggcgctagca cagtggacgc gtgcgcggag ctgatgcgac 240

gaatggagga gcgcgggtccc agctggcgca tcatcatcga catcacgcac gcaatcgtgc 300

cggacctgcc agcgttcgcc acgatggctg tcgcggcgcc catgct 346

<210> 19922

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F11

<400> 19922

gttgagccat acaacagtgt actgtccacc cactccctcc tcgagcacac tgatgtggct 60

atactgctgg acaatgaggc catctacgac atctgccgcc gatcccttga cattgagcgc 120

ccaacctaca ccaacctcaa caggcttgtg tcccaggtca tctcatccct tactgectcc 180
 ctgagggttcg atggtgctct gaacgtggat gttaacgagt tccagaccaa cctggtaccc 240
 tacccgagga tccacttcat gctttcttcg tacgctccag tcattctctgc tgagaaggcc 300
 taccacgagc agctctctgt ggctgagatc accaacagtg ccttcgagcc atcttccatg 360
 atggccaagt gcgacccacg ccatggcaag tacatggcct gctg 404

<210> 19923
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F12

<400> 19923

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 atcttgttct actatgaggc catgttggac atgtgtggcc gattcctgga cattgagctc 120
 ctaatgtaca ccaacctcaa caggcttgtg tccaaagtca tgtaatcact tactgactac 180
 atgaagtgcg atggtgctcc taacgtggat gataacgagg atcacaccaa cctagtaccg 240
 tactccagga tacatgtcat gctttctacg tacgctccag tcatatctga tgagaaggcc 300
 tactacgagc agatcaatga cgttgatatc accaacagtg ccttcgagct at 352

<210> 19924
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F2

<400> 19924

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 ggcgggcgagg tgatggcgat ggaccctgac gcggtagcga aggccttcgt ggagcattac 120
 taccgaacgt tcgacaccaa ccgcgcggcg ctggttgggc tgtaccagga gacctccatg 180
 ctcaccttcg agggccagaa gttccagggc ccgtccgcca ttgccggcaa gctcggatct 240
 ctccctttcc aggcctgcga gcatcagatc gtcaccgtcg actgccagcc atcgggtccc 300
 cagggaggca tgctcgtctt cggttcggg tccataccca ccggccccga agagcacccc 360

atcaagttct tccaagcatt ccattt

386

<210> 19925

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F3

<400> 19925

cacggatggg tcagacgaat gggcgatcta cggcggaacc ggggtgttcg ccatggccac 60

cgggtgtcatg aagagaagaa accttgccgc cggtagcaac gacgggaact ctgacgagct 120

tgccctggaa gttttctgcc cgggtgtttgg cgcatacag caaccaatta gcaagcagca 180

ggactccatc tcctccgtca ccaagatcgg actatggggc ggacagggag ggtcggcaca 240

ggacatcacg gcagagcagc caccacggcg tctgcacagc atcacggtcc gcgctggcgt 300

tgccgtcgac tccatcgagt tcacctacac cgacgacgct gggcagaggc gcaactgctgg 360

gcggtggggg ggacttggcg gcaatgttcg aacgatcgac cttggcgacg cataggatgt 420

ca 422

<210> 19926

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F4

<400> 19926

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ttgaccaacg tgggtgacatg gctgtggctg cttgggctga gcaacagcaa cgcgaaatga 120

cgctacgggc acggcgtctc tcacgtcaa aggttgacct tgaggaagaa aggaagctat 180

ttgccaagga aaagaaggca tctatggaat tctacagcac aactctgaag agacataccc 240

ttgtgttacg gaagagggat attatgcgca agaaggcaga ggaggagaag gataaggaga 300

tcagtagact tctaaccgcc gaaaggcctt gagttggata cagatgaaga ttaaaaccag 360

aattttcttg ggtaacgctt ttgatac 387

<210> 19927
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F5

<400> 19927

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tttatcacag gctctacaat ggtcaccacg atctatcgtc catatcatcg cattgctcaa 120
cttctacaca catctcttcc catatatcta tcaaatacctt ctacgatcgt cactcattga 180
ctgcacttta ctacataca taccgctat cgatgtcctc tcacaacca atctacttat 240
caactcgtca acacaattag atcataacca cttcttctca gtactctact tatctgcacc 300
tggatcctat ctcgatgaat ataacacata tctcaagcac tcaactagat tcatgttg 358

<210> 19928
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F7

<400> 19928

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gcagcgaact gcgtcccggg gcccgcgggc gcgaagcaca ggagagaggc ggcgagttaa 120
accgatgacg cagccgatgg atccgcccga cgtcgagatg gagatggagc ccgcgcccc 180
gcctccggct ccgacagcgg tcggggaggg gtggagcatg ctgtcgcgcg cccgcgggct 240
gctcgaggag ggcaaaccgt cctcgtctct gcaggcgggt ctcttggcca taagatctca 300
aggcggtgaa caagctctca tgcagacatt gaaccgtgca cgtgaactct atgcacagag 360
attgcaggcc agtcctagtg ttgatgagct tgctct 397

<210> 19929
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F8

<400> 19929

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tacttgttct ttgcttccgt acttgagatc tctttggccc atcgggactt tgcagatggc 180
ctcacttgca ggctcactgt acgggatgat gattaggctg ctgccttctt ttgtgcgcac 240
atggtttact accttgagag accgttcatt gtcatactca atcgagtcct tcaccaaaca 300
atggtgcagc cctcctcttc ttctagatga gttttctcag gttaaggagt ccgtatacgg 360
cgatgagaat ttctcgggta gcgtcaacag gtcggctttc gagatcgttg ctacatacaa 420
aaaggaggag acagg 435

<210> 19930
<211> 328
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-002-Q1-K2-G1
<400> 19930

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aaccagatag ggaagcagtt gggccagcac agttgactga taccttgta tctaattgctg 120
aagaaagtgc agacaatgtg gttgtggata tcgaaagacc acataacagg cagattaatg 180
ggatcccagc atctaacgca gtgcctaggt catcagagga tattgaggat ggtgaggtcg 240
ttggaatcat cacacttgag gatgtatttg aagaactcct acaggaggaa attgtggatg 300
agactgataa atatgttgat gtccataa 328

<210> 19931
<211> 343
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-002-Q1-K2-G10
<400> 19931

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ttgtaggagc acgacttaga atcgaaagcc gacgccggag cgtccaagac ctacgctcat 120
cacgctggta ctgtccgtaa gaacggtttc atcggcatca agaaccggcc ctgaaagggtt 180

gtggtggttc ctacatcaga gactgttcac catggacatg ccaaatgcc a ttttctgccc 240
 atagacatat tcaacgggaa aaagctcgaa gatattgctc attagtcaca caactgtgat 300
 attacctatg tgaaccgtac tgagtaccag ctgattgatc tat 343

<210> 19932
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-G11
 <400> 19932

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 ggcgcgaccg gacaaccagc gtgagcgcg a ccggcgacat gactcgtggc aaccagcgtg 120
 accgcgaccg tgagcgcgcg gggcgcgga agcccaacgc caagaactcc cactacgggc 180
 ttaccccgga gcagcgccga gagagggaca agaaagctct ggaggagaag gctggcaaca 240
 tggcgcgagca tgcagctgcc ggtggcaccg ggacctccac ggacaacatc atgaacaagg 300
 cacgtggcaa gaagtatgag gcagtggcgc gccgacacct atgtacgatc aatcgatgcc 360
 tagagcttgt aacttgtag catacttgta ggtgctatgc tagctgggtc at 412

<210> 19933
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-G2
 <400> 19933

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 gaagagtgca agtctctgct ctcttttgaa agaagctata catgtcatta gttgtgggta 120
 tgaagacaag acagactggg gaaaagagat tggctggatc tatggatcag ttacagaaga 180
 tattctaact ggtttcaaga tgcattgtca tggttggcgg tcaatttact gcatacctaa 240
 acgggttgca ttcaaagggt ctgcacctct gaatctttca gatcgtcttc accaggtgct 300
 tcggtgggct cctgggtcta ttgagatctt cttcagcaat cattgccctc tttgggtatgg 360
 gtatgggtggc cgtctgaaat ttttggaag 390

<210> 19934
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-002-Q1-K2-E7

<400> 19934

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gcatgtggca catctggtcg accaggctcg gcggcgggca gggcatcacg gaggcggact 120
ggctcgacac cagcttcgtc ttctacgacg acgtcaagag cccgcggaag gtgcgcatca 180
ggttccgcga cgtcctggac acgcgcgacc tcggctacac gtacgacgcc gagtccgaca 240
aggacctgcc atggctgcgc tgcaagatct cgtcgtctgt gccccacggc aaggacagcc 300
cgccgaggtc atcgtcggcg aggaaggcgg cggcgccggt gttcccgtc gccctgacca 360
agggccaggt ggtggagggt cgggccgtgc ctgtgccggc caaggacccg gngaaggagc 420
agctgctggt gatcgagggc atcgagt 447

<210> 19935
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D2

<400> 19935

atgggacaat gccagaagt acatgcaccg cctaaggcgt cttcagaaac acgacaatga 60
gcgatcaaca gatatatga cattcaataa agagcgcac aatcataata tgcaagagag 120
aggtatggat aaagactttg taaaagggtat ttg 153

<210> 19936
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D3

<400> 19936

aagagacaat cccgataaat acatgcacca agccccgacgt ccgcgatgct gctagagggg 60
 gtgctcttca tgagatcaag gagcgcatca agaagtccaa ggatgagatc catctgaagg 120
 tcaaaagcaa gggcgaggcg tccggcgagg aatacggcaa ggaggaggag gtcgaagtag 180
 agattgaggc caagtttgtt gagaaggaag aggtcaaaga cacgggtgac ggtgcagcat 240
 gaaagggtag caagaagaag gatacaaagg agaaagacaa gaacaagaat gaaggtgggtg 300
 acgattcatg gaaggcagag gaagacaaga agggtaaa 338

<210> 19937
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D4

<400> 19937

aagagacgat ccagaaaaat acgtctatta agccccgaggt ccgcgatgct gctagagggg 60
 gggctcttcg tgagatcaag gagcgcatca agaagtccaa ggatgagatc catctgaagg 120
 tcaaaagcaa gggcgaggcg tccggcgagg aatacggcaa ggaggaggag gtcgaggtag 180
 agattgaggc caagtttgtt gagaaggaag aggtcaaaga cacgggtgac ggtgcggcat 240
 gaaagggtag caagaataag gatacaaagg ataaagacaa gataaagaat g 291

<210> 19938
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D5

<400> 19938

cagaagcagt tctccaggca atagactagc tagatgcgca tcaccaaaga gtagcttgcg 60
 tctagaacga agaaacaccc tccactacat ggccgcgctc agttcttggt ttgcttctgg 120
 aggcttgcca cttcaggcca cccttggtgt ttctctctct cgccgtcgcg ggactccagt 180
 cgtcatctcc gtatcatctc atggtcgccc cccaagtctt atcgggtcca ccatgaatcc 240
 ttcaggcatg gctccgatca aaagaactac acgaattcgt gcggttcac ccatgcctgc 300
 aaattcggtta ggaggaagcc tcaccatcat cccaatacct gacctgcttt catcatggct 360

ctggatgtta cgagcggcca tagctgcagc agtgcctctt tacagaaggt tcatagcatt 420
agaaga 426

<210> 19939
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-002-Q1-K2-D6

<400> 19939

ctcaagcact ggaagacaag tacgggtggct ttttaggcga caggattgta aaggattaca 60
cagacttcgc taaggtgtgc tttgagaact tcggtgacaa ggtgaagaat tggttgacct 120
ttaacgagcc acagacatctt acaacctttt cgtacggaac gggagttttt gccctggac 180
gggtgctcacc aggagaaaaa tgtgctcagc ctattgctaa ctactcacc gaaccataca 240
ttgctggcca caacatcctt cgagcccacg ctatgactgt tgacctctac aacaagaatt 300
acaagggtac agacggccgc attgggcttg cgtttgacgt aatgngtcgc gtgccatatg 360
gaaatacatt tctcgatgaa caggcccaag aaaggtccct cgatc 405

<210> 19940
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-002-Q1-K2-D7

<400> 19940

cgcgagagctc gctcgtgcgg tcggatccac gggcatggcg gccggtcagt tctcgatct 60
ggccggcgct accgcccttg gtgaggccga ggtcatgcag gtcctgacga agaagttcgg 120
cgagatggcc gagggtccg ccgctgcgg cgccatgctc ggtggggccg ggcccgacga 180
ggaggccgcy ttgcccgcgt acggccgcac catcggcgtc ctgtacgagc tcgtggacga 240
catccggagc gcatcgggaa acggcaagat gaggagcaac gccagcgctc tgcgctcgct 300
gggatggac cgcgcgctcg gcattgtgga agagctcaag gctcangcca agacagaggc 360
tgacagggtt ctccgataag tacggcgatc ggggtgctgcc tntatacagc ttcgtggact 420

acgcggtgga gagagggttt

440

<210> 19941

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-D8

<400> 19941

cccacgcgtc cgacagcaca gagtgaggta agcatccgaa aaaagctgtg atctgatcga 60

catggccgcc gccaccatgg ctctcacctc ccgcgcgctc gtcggcaagc cggcgaccag 120

caccagggac gtcttcggcg aggggagcat caccatgcgc aagactgctg gcaagcccaa 180

gccagcggcg tccggcagcc cctggtagcg ggccgaccgc gtcctgtacc tgggcccgt 240

gtccggccag cccccaagct acctgaccgg cgagttcccc ggcgactacc gctgggacac 300

cgcgngctg tccgtcgacc cggagacttt cgccaagaac cgcgagctgg aagtgatcca 360

ctgccgctgg gccatgctgg gcgcgctcgg gtgcgtgttc cc 402

<210> 19942

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-D9

<400> 19942

ggcgactccc aactagcccc tcacgcgctc atcggcgccc tgtcgagtcg agcccgcac 60

tcggccgacg gagagcgagc gcagccgcgc gccggtgaga gctttgcttg ctttcgggtg 120

tctgtaacga cttaacgaac gacggcaggc ggtagataaa ggcgcgcgat gtgcgacgcg 180

gcgccgaggt acaggggctg gcggaagcgg ccgtggggcc ggttcgcggc ggagatccgg 240

gacccggcga agcgcgcgcg cgtctggctc ggcaccttcg actccgccga ggccgcggcg 300

cgcgctacg acgtggcgcg gcgggcccctg cgcgggccgc tcgccaggac caacttcccc 360

gcgctcgcca ccacctcccc cncgcccgcg cccacgtgca 400

<210> 19943

<211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-E1

 <400> 19943

 gttgccagga acagaaagag gcgatggaag tgaagcgtga ctccgcgagac tcctcgtgga 60
 gaaatagcca gtcaagtga tagtgactaa agccaggagt catcttgagg cgaccaccta 120
 gcggtgtgac gagctaaactc ttgatgcaat tgtcattgta gcagcacttc ctatatacat 180
 ggattaccat tggacataga cagatgttgg aactaggatg gtgccatgcg tacatatgtt 240
 ggacctaatg cagtaatgga ccgtcggcca aattcaatcg cctctaggta ccacaccgcc 300
 taccgcgtct aaggcaaggc ttgtcgcagt agc 333

<210> 19944
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-002-Q1-K2-E11

 <400> 19944

ctagcataca gacgaataat ctcttcttca cctcactaac accagctagc aactctttct 60
 ctctgcaat aatggcgcgt cgctctcct cctcccagcc gcagctggtc gcggcggcgg 120
 cggtcctggc agcggcgcgtg ctgctgctgg cggcgggggc cgggacggcg tcggcggcgg 180
 tgagctgcgg cgaggtgacg tcgtcgggtg cgccgtgcct cgggtacgcg atgggcagcg 240
 cggcgtcgcc ctccgcggcg tgctgcagcg gggcgcgtc gctcaacagc cgcgcgtcgt 300
 cggcggcgga ccggcaggcc acctgcaact gcctcaagag catgacgggc cggctcggcg 360
 gcggcgtcag catggccaac gccgncaaca tcccggcaa gtgcggcgtc tccggtcgcg 420
 tgcccatc 428

<210> 19945
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-E2

<400> 19945

cagagatcct agggaaaaat tagatcgggg tgaaaggcgt cgtggggaag atgccattga 60
gagatcaaca gatagattgt cggacaggag agaacgttcc attgaaagga tgcaagagag 120
aggtacagat aaagcccttg aaaaaggtag agaggataga aataaggatg agaggaataa 180
agttaaatat gctgaacctt cgggtggaccg gacacattct tctgatgaac gattccgagg 240
gcaaagtttg ccaccgtccc cacctattgc cgcaagtttt gtaccccaat cagttggcgc 300
caaccgacgt gaagaagatg ctgaccgaag gngtgggagc tccaggcatg ttcaaaggtc 360
atctnctagg cacgatgaga aagaaaggan gcagtcagag gaaaata 407

<210> 19946

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-E3

<400> 19946

cagagatcct acggaaaaat tagatcgggtg tgaaaggcgt cttggggaag atgccatgga 60
gggatcaaca gatagattgt cggacaggag agaacgttcc attgaaagga tgcaagagag 120
aggtacagat aaagcccttg aaaaaggtag agaggataga aataacgatg agaggaataa 180
agttaaatat gctgaacctt cgggtggaccg gacacattct tctgatgaac gattccgagg 240
gcaaagtttg ccaccgtccc cacctattcc cgcaagtttt gtaccccaat cagttggcgc 300
caaccgacgt gaagaagatg ctgaccgata ggggtgggagc tccaggcatg ttcaaaggtc 360
atcttctaag cacgatgaga aagaaaggaa gcagtcagag gagaatattt gtcatttttag 420
gatgatggga aacaca 436

<210> 19947

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-E4

<400> 19947

gtcaaatact tcatactaaag tcgatacggta tgtaaggcat cagctgtaag atatcatcgg 60
 gggatcaaca aatagcttga accacagcaa agaacgcac attgatagga ttcaagatag 120
 aggtatggac gtatcctttg ataaacgtat tgacaatact aatagcgctc atacgagtaa 180
 agctaaata 189

<210> 19948

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-E5

<400> 19948

gccacctcct tcccccttga tttttttttt tggttggatc tagcgtgacg gcaaagacgg 60
 tgtatcgaag ggtcgacaat ggttacgacg atcggtagtc catagcagcg gcgggacgcaa 120
 cttcgacccg gttttcttcc catatatctg tcaaatacct ctccggtcgc cctccatcgg 180
 cagcaatttc cgccatagat accggcgatc gagggcctcg gacaacccaa tcgacggagc 240
 agcgcggcgg caggagaggg caaacctttt tcttctcagt actctacttg tctgcgcctg 300
 gatccccctc ggaggaagat aagacatggg tcaagcactc ggcttgattc aagtggatca 360
 atcgacagta gccatcaagg aaacttttgg gaagtttgac gaggtcctag agcctggatg 420
 ccacttcttg ccatg 435

<210> 19949

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-E6

<400> 19949

ctcaaaggaa tcgtgagccg tcccgcgcgt cgtcagccat cctctgcatc tcggtgtcgc 60
 aactccgca tacgcaccta cgagagtcca gtgacagcta gctagcgagc gagcgaagcc 120
 atggctgtcc gcaccctggc atcgaagaac gccctatcct tcgcgctcgg cggcgcgggc 180
 cggcgcgtcg cggcgtccgc gaggggggtg acgacggtcg cgctcctcga cctctactac 240
 gacttcggcg cgctggagcc ggccatctcg ccggagatca tgcgcctgca ccaccagaag 300

caccacgcta cctacgtcgc caactacaac aaggcgctcg agcagctcga cgctgccgtc 360
gtcaagggcg acccct 376

<210> 19950
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D12

<400> 19950

tttccccac gtgcgccgcc ggcaccttcc tcgatcccat ctcccaacgc ccccgctcgc 60
cctcgggata ccgcgccgc tccatctgcc tttgctcccc caccgcagg cagcgagcga 120
cagcgacggc gagggatggc caaggccagg tcgttggcga agcagaagca ggcgcagcaa 180
tcaaacggcg gcggcggcca cgcgctgtcc tccaagctcg cccggtacct cgaccggag 240
gcctacttgg acaaggacca actgctggac gcggtgcact ggatccgcca ggcggtgggg 300
ctcatatgcg gcctgctctg ggggagccgc ccctcgtcg gcgccgtctg gatcgacta 360
tctatggcca tctcgactgg cattatctat tggactaca cct 403

<210> 19951
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-C1

<400> 19951

ggtcattcct gggcccggtg agaagccaat gatagttggt cagcacaagg gggaggagaa 60
gcagtttgca gccgaagaga tctcctctat ggttctcatc aagatgcgtg agatcgctga 120
agcttacctt ggcagcacga tcaagaatgc tgtgtcacg gtccctgcct atttcaacga 180
ctcgagagg caggccacaa aggatgctgg ggtgattgct ggcctcaatg tgctgcgtat 240
catcaatgag ccaaccgctg ctgctattgc ctatggtctt gacaagaagg caaccagtgt 300
cggtgagaag aatgtcctca tttgtgacct tggagggtgt accttcgatg tctccctact 360
tacaattg 368

<210> 19952

<211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-C10

 <400> 19952

 caccaccata taacaagtca acatttttaa acattctaac actactactc gacagcgtca 60
 ttatcataaa tctgtatgaa acaagaacaa ttattcttac ttatacaaat atcaaccact 120
 aaatcatcca tactttccact aatatccata ctcatattat acaactgcat tctaaccata 180
 ttgacgtcca ttgcataaca cctctataaa tatcatcact cgtcataaaa ctatccaaat 240
 tttcattoga tcaatccgat atctaatac actta 275

<210> 19953
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-C2

 <400> 19953

 gcatgccgca gcgaggaacg tgatcagaat cagccagtgg tgcttgtgac ggggtgctcg 60
 gagggcggca tcggccacgc gatggcacgc gccttcgctg cggccgggtg cgccgtcgtg 120
 gccacggcgc ggtcacgcgg ttccatgcgc ggtctcgacg gcgacccgcg gttcctgctg 180
 ctggagctcg acgtgcgctc cgacgagagc gcgcgcgccg ccgtggcgga tgcgctgcgg 240
 gagcacggcc gcatcgacgt gctcgtcaac aacgctgggg ttcacctcgt cgcaccactc 300
 gccgaggtgc ccatggagtc cttccaccag gttttcgaca ccaatgtcta tgggtgcaatg 360
 aggttaatto aatctgttat ccctcacatg atggaaagaa ggaaaggaac aattgtgaat 420
 gttggaag 428

<210> 19954
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-C3

 <400> 19954

ctctgcgtag agggcaagcg ggtgctcttc tcccagccca atctctccg aatccacgcc 240
ccagtcaaga tctgcggtga tatccatggc cagtttgtcg accttctgag attattcgat 300
ttgggtgggtt atcctccagc ttcaacttac gtattcctcg gagactatgt cgatagagggc 360
aaacagagcc tggagactat atgcttgtcg ctggcggtaca aaatccggta ccccgaaaat 420
attttcct 428

<210> 19957
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-C6

<400> 19957

ttctattttt ctctctcga gtagcgtggc gggcgtggac gcggcggcga tgctgcggtc 60
ggcgtgcgg cgaggagggg cgtccgcgag gcaggtcgcg ttggcgggag aagcctcgcc 120
gagagacctc ctccggatgc gcggtggcgga gcgggagcgc gcgaggcggc ggcgtcgca 180
cccgggccgc gacgagttct tegtgeccac gccagagtcg ctggcgtggc tcgactcggc 240
ctccctcccc atggtgtca ccgacgcgc cgtggccctc ttcaccaagc tcctcatgat 300
ggaacatgaa gctacagatc aagaaaggag agagcgcaag ataaagaata gccaccctga 360
tcaaggaaca gtaaggatgc tatctcgtga agaatgggag gaggtccaag aagtc 415

<210> 19958
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-C7

<400> 19958

gtcctgcgcc acacgccgcg gccgtctccg ggcaggaagg aagggggcgg gaagatgatg 60
atgacgcggg caccgatggg gccgatggag ggcgcggcgg tggacgagat ggtgcgccgc 120
ctcgtggagg gcggccgagg cgggcgccag gtgcagctgt ccgaggcgga gatccggcag 180
ctctgcgtag agggcaagcg ggtgctcttc tcccagccca atctctccg aatccacgcc 240
ccagtcaaga tctgcggtga tatccatggc cagtttgtcg accttctgag attattcgat 300

ttgggtggtt atcctccagc ttcaacttac gtattcctcg gagactatgt cgatagaggc 360
 aaacagagcc tggagactat atgcttgctg ctggcgtaga aaatccggta ccccgaaaat 420
 attttcctgg tgaggg 436

<210> 19959
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-C8

<400> 19959

gagaaattgt agctgaagtg aaaaaaaaaa cagcagggaa caatggcact atcacgaagt 60
 atgagagcat gtttgcacag tggaagactt gcacttcttg ccataattggc ctctgggtgga 120
 attgtattgc aaatcttggc ttgtgctctc tataacaact ggtggccaat gctaacagtt 180
 ctcatgtacc ttatcctacc aatgccccctc atatttttcc tgggttctga tacttctctc 240
 atgatgtcca atggggggaga cggctgggtg aacttcacga aattcttgac gggcgcatca 300
 atagtaggga gcatcgccat tccgtcgatc ctgaagcatg cgggcgcatc tggatgggga 360
 gccctgacga tggagctgtc atcctttgtg gtctttggcg tggcaatcct 410

<210> 19960
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-C9

<400> 19960

ccccagttcg tgaagaggtc aaaatgggtc gggctactag cttttctact cgtgtccctg 60
 aatatgatgt acctgttggt gacaaggccg tggatgtac atggaagaga gagcaaccac 120
 gaaaggcacc atccgtgccc caagatgcag actcatctgt gaaaactgca tccaagccat 180
 ctggccgccc ctgggataag atcgctgcaa atctgatggc ttgtcttatg gctattgtaa 240
 tgttggttcg atcaatcaaa gatcttgcca caatgagatt gtcactctaaa ggcggttcag 300
 aagaaagcta ctgtacattg taccgggact ccgtccagaa agaggaattc cgtcctcctt 360
 cgccattccc tgggttcgct gaagccgacc tattcgccgt ggtcttgcaa aggctgggag 420

agcttga

427

<210> 19961
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D1

<400> 19961

agctcctcta ccttttccat cgctctgctc tgctccgct ctccggccgc cccggcaaaa 60
gcgatacaca gccatggagg ggtacgaccg cgagttctgg cagttcagcg accagctgcy 120
cctgcagacg accgttctct cgggctctc cctcgggac tccatctggt ctccggccac 180
cggcgcccgc gggcgggcga acaacaacac cgacctactc gggcgctccg cgtcggcagc 240
cgacgccggc aagcacaacg gcgtgggcct cagcctgaat gatggagggc cccgactcat 300
tggtccggg aagctcgact tcggcggcag caaggcctgc cgctacaac 349

<210> 19962
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D10

<400> 19962

gccgactccc aactagcccc tcacgcgctc atcgggcgccc tgctcgagtc agcccgcgctc 60
tcggccgata gagagcgagc gcagccgcgc gccggtgaga gctttgcttg ctttcgggtgt 120
tctgtaacga cttaacgaac gacggcaggc ggtagataaa ggcgcgcgat gtgcgacgcg 180
gcgcccagggt acaggggctg gcggaagcgg ccgtggggcc ggttcgcggc ggagatccgg 240
gacccggcga agcgcgcgcg cgtctggctc ggcaccttcg actccgccga ggccgcggcg 300
cgcgctacg acgtggcgcg gcggaccctg cgcgggccgc tcgccaggac caacttccac 360
gcgctcgcca tcacctccg acgtcccgcg cacacgtgca gctacggctc caccgtcgag 420

<210> 19963
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D11

<400> 19963

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 ataagcgtaa ataagtatga aagaagaata atttctgata cggtgtcaga gtttaaatcca 120
 tgggatgatt catattcgac tgctaacaat tttgctagga tgcttaggga atctaaaaat 180
 aatgatgtcc attgcattgc gccttcatgg aaatcaggaa ccgggatcaa agagtccaga 240
 ttttcatttg ctagacagga taaccaagga aacttgtttg attcatctct cagaaactgt 300
 ggtactggta ctgagcagaa tttcagtttg ctaccccaga attctcgagg aaatattttac 360
 cagaatggcc ttgcattcca atctctagag aatgaatttt caaacaataa ctctcctggt 420
 gtatt 425

<210> 19964

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B9

<400> 19964

caaccagaag agcggcggcg cgggcggaca aggagcaggc ggaggaggag ttgtgccaag 60
 ccacaatggg tatctcgctg gactcgatgc acaagcgccg agccaccggt ggaaagcaga 120
 aggcctggag gaagaagcga aagtatgagc ttggtcgcca gccagccaac accaagttgt 180
 caagcaataa gacagtgagg agggtcctgt ttcgtggagg taatgtgaaa tggagggctc 240
 ttcgccttga tactggtaac tactcatggg gaagtgaagc tgttacccgc aagacccgta 300
 tcctcgacgt ggtctacaat gcatcaaaca atgagcttgt gaggacacaa acccttgtga 360
 agagtgccat tgtgcaagtt gatgctgccc cattcaagca gtggtacctc actcactatg 420
 gag 423

<210> 19965

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A2

<400> 19965

agcacaagca caaggagcac ctccggcgaga tgggcgcctt tgccgccggc gccttcgccc 60

tgtacgagag gcacgaggcg aagaaggacc eggagcacgc gcagcggcac aagatcgagg 120

agggcgtggc ggcggtggct gccctgggca gcggcggcctt cgcgttccac gagcaccacg 180

acaagaagga ggccaaagac gcggcggagg acgccgggga ggaggaggag tccggccgcc 240

gcggcgaggg gaagaagaag caccacttct tcggctgacg gggctgctgc tcgatcgatc 300

tacttgcgta cgtaggctgc tccccaggac cagaaggagc atgcatggag ggcgaaacgaa 360

gtcacggggg ttgattgcc cgtctatgta tatcatgtgt agttactgat gatgtgtgtg 420

cat 423

<210> 19966

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A3

<400> 19966

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gctgctcgct ggtcaccatg agcaaggaga agcaccaccg cgactggatc ctccggcgct 120

gctgtggctc cctcgccgcc tgcatactga cgctggccgc cgctcgtcggc ttcatactgc 180

tcgtcatctt cctggcgctg cgcacctcca agccgtcctt ctacctgcag gacgtgcagc 240

tgcgctccat cgacctcagc gaccggcggc tctccctcga cctccagggtg acgatcgctg 300

cgcggaaccc gaacgagcgg gtgggcgtgt actacaagac gctggacgcg ttcaccacgt 360

accgcgacga ggcggtgacg gtaccctgtg cgatgccggc gatct 405

<210> 19967

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A4

<400> 19967

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cgtgcggcgg gggcgcgtcg gggcgctggg caccaactgg gcgctcgtgt ccatgaacca 120
cgacacgcag tcgtgcatgg accccaacgt gatggaggcc aaggtgggtg tcagctcctg 180
cggccacgac gggcccttcg ggcgccacgg cgtcaagagg ctccaggaca tcggcatgat 240
cagcgccgtg cccgggatga aggcgctcga catgaacgcc gccgaggacg agatcgtgcg 300
cctcacgcgc gaggtcgtgc cgggcatgat cgtcaccggg attgaggtcg ccgagatcga 360
cggcgccccg aggatggggc cgacgttcgg cgccatgatg at 402

<210> 19968

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A6

<400> 19968

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ttgaccaacc tccagcaatc ttcccaacaa gcagaggatg cgttgtcaca gggcatggaa 120
gcaactgcagc aatctttggc agagactttg gctggatctc tcgggtccagc aggttcttca 180
ggaaatgtgg caaactacat gggtcagatg gccatggcca tgggcaaact cgggacgcta 240
gagaattttc ttgcgcgagc cgacaacctg cgacagcaga cgttgcatca aatgcaacgt 300
atcctaacga tccgacaggc ttctcgtgct cttcttgcaa tccacgacta tttttcacga 360
ttggcgcgct taagttctct gtggcttgct aggccacgtg aataacgaaa ggccgtcagt 420
a 421

<210> 19969

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A7

<400> 19969

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atgtgtacca ttctctgatt gaatatttga gtgaatgggt aatactgcat acctggattt 120
caggattcat atttgaatga atggtggata caccgcatac ctggattcca ggatcgt 177

<210> 19970
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A8

<400> 19970

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 tggcgtagaa aagactgaga gacagttggc tcacacagac aattgacaac tgactatagt 120
 atctgcctgc ctggctgatg ctgatagaga tggggactct tgtcctgctg tctgttcttg 180
 tataaatctc cgttgtcaaa tatttatcgt ccgattatct atttttaaac taaacaacga 240
 caaataaaaa agaacgaggt tgcaaaagat agatacaaac caaaggatgt cgtcgctgtg 300
 cgctgatctg atcactgccca ctctgccagg tactacctca aggacgcggt gcttgacggc 360
 ggcaccccg tcaacaaggc gtacgggatg acggcggtcg agtaccacgg cacggacgcg 420
 cgc 423

<210> 19971
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A9

<400> 19971

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 tcttcgccta ggtaactcgt tgatggtgaa gggtacaata gtgctgatga acaggggtccc 120
 tgttacgcct cgagttatga tgattcggaa agagagcgta tgtttgagca tgacctaaag 180
 cgagtgaag gggttggaat cagaaagaca gccgaagatg ggaactggct attcagaact 240
 ggtgctgatc aagtttattg gaaatccaaa acctattgac ttggttagcc aaatttgggt 300
 ggattatatg gaaagggaaac gggatcattt ctctcagatt ataactgaga tttttacatt 360
 atactgtacg agggaaaagga gagacacggt ttatggcgac aatgttgaga t 411

<210> 19972
 <211> 347
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B1

<400> 19972

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actccatgct cgacgctatg gagaacatga acggcaagga gctcaaccgc cgtaacatca 120

ccgttaacca ggcccagtc cgtggcagtg acggtggcac gctgtagcta ctgccgcagt 180

cgctcgcggtg aggcagctat ggtggcaatg cgccagtgac aagctggata tggcaagctg 240

tcgtgcgggt acggcaatgc tgcaccaggt gtataggcat gaggatacat gatgctagta 300

gccggctaaa gcggtcttgc tctaaaggta agtgattgaa gctttca 347

<210> 19973

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B10

<400> 19973

cggactcggtg ggtctggaac gatttctagg ccattttagt agaaccagat tcagatgccca 60

attccacagc ctgggggtat cagacctggt gatggtatga ttcggccttg tttggttggc 120

ccattacctg gacatcatgt tgctgtgtag ccttcttttg atct 164

<210> 19974

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B11

<400> 19974

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gtgtgggtgtg gcgacctctg ccgagctcat cccgaccacg ccggcgcgcc gcggcgcgcc 120

ggcgtggccc gccggcaagt gcaagcggcg gaaggcgaac gacttcgagg ccgcgttccg 180

ggagttcgac gaggactccg aggaggagga ggaggacgac gagggggtgg tggagagcaa 240

gcccgccttc gtcgtcgctg cctcgtccgc ggcgacgcag cccagggcgc gccaggagca 300

gcggagccgg cgccggggcg cgcaccagca gcagtacagg ggcgccggc gccgaccgtg 360
gggc 364

<210> 19975
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-002-Q1-K2-B2

<400> 19975

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accgatgcgg gcgatgtcgt cggcggttaa tggatgctg cgggcacggc tgcgcggggc 120
agcgcgcgtt cgcgggggcg gcggcgaggg ggccggggcg tggacgaccc caggtcacga 180
ggagcgcccc aaggggtacc tcttcaaccg gccgacgccg cctccggggg aatctcgcaa 240
gtgggaggat tgggagctgc cctgctacgt gacctncttc ctcaccgtcg tcatcctcgg 300
cgtcggcctc aacgcgaagc ccgaccttac aatcgagacg tgggcgcacc agaaggcgct 360
cgagcg 366

<210> 19976
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B4

<400> 19976

gcacaagtga cagtagcttg atgacacatt gaaacacat aagagctgtg atcatcctga 60
acctgtgaga agccctgagc aggatggaaa agactacaag aggcctaagc ttgacggata 120
ggtctatata tatgattttg gatgggtttt ctggaagctg acaagcaatt agctgccgga 180
ttcattgtat gatgacttat acatgttgat gagcacgtgt cttcttcgct ggtgcctgaa 240
gaagtgaaga tgccgcgcta caagattgat gcgctgcaga gagcaccaag atgatgcgcc 300
caacaactga ttgcagctga cagatcgagg aaagtcagcc agcaattatt agtaggttcc 360
atcaaacatt gcaatataat atata 385

<210> 19977
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-B5

 <400> 19977

 gagaaatact tctgaaaacg acgaccaata tcaacgccaa caggcgtaac ctaggggcg 60
 cttaccacta agtggttgca tccatggcaa ggatcttcaa aatactattc tagacgctaa 120
 atgcctgcaa tcattcattg ctagacctgc ttgcactatt tcttgctcct atacgatcat 180
 ctgcatctca caagtatact aagttcctaa ctctaattct aattattaac aacacactcc 240
 agaatgctac tgaactactc tacaagaaat acctata 277

<210> 19978
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-B6

 <400> 19978

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 gttcctgatt cgattggcaa ggcgaattgg ccgctcctga ccagacgccg gatagggctg 120
 gatttgattg gattggatcc ccaattgtgt ttgccacgtc cgtgcgttcg ggcgggcg 180
 ggagttactt tagggtttcg gcggtgctgg tcgccgtgta ggcggtaggg ttttgccatg 240
 gcggagaagg gctgcctcaa gcggtccag aaggagtacc acgccctctg caaggaagcc 300
 gcttcgcaga tcgttgctcg cccgctgccc aacgacatac tggagtggca ctatgtactg 360
 gaaggaagta aaggaacgcc ctttgaagggt ggatattact atggg 405

<210> 19979
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-B7

 <400> 19979

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gttactgatt cgattgacat ggcgaattga ccgcatcctg accagacaca tcatagggct 120
ggatttgatt ggattggatc cccaattgtg tttgccacgt ccgtgcggtc ggaccgacgg 180
gggagttact ttaggggttc agcggctgct gtcgccgtgt atgcggtagc gttttgccat 240
ggcggagaag ggctgcctca agcggctcca gaaggagtac cacgccctat gcaaggagcc 300
gtctacgcag atcgttgctc gcccgtgcc caacgacata ctggagtggc actatgtact 360
gaaggggaagt aaaggaacgc cctttgaaag tggatattac tatgggaagc tcatatttcc 420
acc 423

<210> 19980
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B8

<400> 19980

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tctaggtctc ggaccaaggg atgcatgtta cctgcccac atcctaaaaa atctgaaccc 120
agatattcga tgccgaacag gttgggtcgt tcgtttgctg acgtgttctc ttccgatccg 180
ccgaaacgcg tgtgcaggcg agcacagcta cgtggagggtg gcggtgcaga cgaggagcgg 240
caagtccgtg cgcgtggtgg tggagctcag cttccgcgcc gagttcgagg tggcgcgcgc 300
cagcgcggc taccgcgcgc tggtgaccgc gctgccccga gtgttcgtcg gccgggccga 360
ccggctgcgc ggcgctcgtca aggtcatgtg cgccgcggcc aagcagtgca tgaaggataa 420
caacatgcac atggga 436

<210> 19981
<211> 354
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-002-Q1-K2-A12

<400> 19981

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aaggacgacg aggcaccgga gcagcagctg gcggccggcc acggcgtcga ggtggccctc 120
 gtggcggcgt tggagaggag cggcggcgcg ctccccttcc tacaggcggc tatggatgtc 180
 gccacccgca ggtccggcct gttccgcgac ctttcggcgg tgagcaaggt caccgcgatg 240
 gcggcgcccg tcagggcgca gatcgaagcc gaggagaggg tgaccagnga ggcggaggcc 300
 aagaggaagg cggaggagga cgagaggaag gcggatgccg atgcgcagag ggct 354

<210> 19982
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-G4

<400> 19982
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 gcagcagccc ccgcgcgagc agccgcagcc gggcatggcg ccgcctccgc ctccgcaggc 120
 tgctggcggg cagccaccgc agtgggggtg gatcccgccg ccgatggcgc agcagtacgg 180
 cgcaccgnct ccgcgcgagc ctccggcgat gtggggccag cctccgccgc aggcgcacta 240
 cgggcaggca ccaaccctc agcagtacta cgccgcgccg ccggtgccgg tgcaggcgcc 300
 agccgcccc gctgcggcgg acgaggtcag gacgctctgg atcgngacc tgcaatactg 360
 gatggacgag aaactacgtc tcgggtgctt ttcgaacact ggggaggttc anaatgtgaa 420
 gctcatccgt gacaaga 437

<210> 19983
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-G5

<400> 19983
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 gcagcagcgc ccgcgcgagc agccgcagcc gggcatggcg ccgcctccgc ctccgcaggc 120
 tgctggcggg cagccaccgc agtgggggtg gatcccgccg ccgatggcgc agcagtacgg 180
 cgcaccgcct ccgcgcgagc ctccggcgat gtggggccag cctccgccgc aggcgcacta 240

cgggcaggca ccaaccctc agcagtacta cgccgcgccg ccggtgccgg tgcaggcgcc 300
agccgcccc gctgcggcgg acgaggtcag gacgctctgg atcggggacc tgcaatactg 360
gatggacgag aactacgtct tcgggtgctt ttcgaacact 400

<210> 19984
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-001-Q1-K2-G6
<400> 19984

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gggaatcaag gccttctcag gaagcccaat tggtggggag atacgcggtc tgggactgat 120
acttggaaact gaatttgtcg acaacaaatc tccaaatgat ccatttccag ctgaatgggg 180
tggttggttcg atatttggcg cggagtgcga gaagcgtggg atgctcatca ggttggctgg 240
ggacagcatc atgctgtcac ccccgctgat catgactccc aatgaagtcg aagaaatcat 300
aagcaaattc ggcgatgctc tgaaggccac ggaggaacgg attggagaac tgaaatccag 360
gaagaattag ccgatgctgc tggttgtaac gacggtgagg atggtgatgg cagcagtata 420
ttttc 425

<210> 19985
<211> 315
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-001-Q1-K2-G7
<400> 19985

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tgcaatcaat gacttcagaa taagcccaat tcatgaatta gatacccggtg tctaatactg 120
atacttgaaa ctgaattagt ctacaacaaa ttttcaaagt atccatttac agctgatatc 180
tagtgtacat tcgatattta acacctagtg cgagaagcat gggatgctca tcatggtggc 240
tggcgacagc atcattctga ccccccgct gatcatgact tccaatgaag tccaagaaat 300
cataaacaaa ttctg 315

1. The first group of people who are interested in the study of the history of the world are the historians. They are people who study the past and try to understand what happened and why it happened. They use a variety of sources, including books, documents, and artifacts, to reconstruct the past.

<400> 19986

<210>	19987
<211>	400
<212>	DNA
<213>	Zea mays

<400> 19987

<210> 19988

<211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-H12

 <400> 19988

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 aagttccgca tgctcgctggg tctccccgtc gcagcgaccg tgaactgcgc ggacaataca 120
 ggcgccaaga acctctacat catctccgtc aagggcatca agggtaggct caaccgcctg 180
 ccgtccgcct gcgtcggcga catggtcattg gccaccgtca agaagggtaa gcccgcacctc 240
 aggaagaagg tcatgcccgc cgtcattgtc cgccagcgca agctgtggcg ccgcaaggac 300
 ggagtctaca tgtacttcga agataatgct ggagtcattg tgaaccccaa gggcgagatg 360
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<210> 19989
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-H3

 <400> 19989

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 tagtggatct actacgtaca tatatagaag gaaacagctg cagctctctc tctctcgctg 180
 tttcctgcgt gatctgcttg tgtagctact agctagctag cggagcggaa cccatgggct 240
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 ccggcaaccc cg 312

<210> 19990
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-H4

 <400> 19990

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 tgtgttggtg cttctggagc tttatttggc ctgcttggat ccatgctttc tgagctactc 120
 atgaactgga ctatatactc caacaaggcc agtacaatta acagataaat atatacttta 180
 ttttatccag ctgcttgata gtcatttagc tcgtatactt aatttgctct tgcaggcagc 240
 agctataata acactcctgt ttataattgc actcaacttg gctattggga tactacctca 300
 tgctgacaac tttgctcaca ttggtggatt cgcaacgggt ttcctcttgg gttttggtct 360
 gttggcaagg cctcaatttg gctggatgga acaccacgag ct 402

<210> 19991
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-H6

<400> 19991

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 cgccagatgc ccaggtaggg gccattcgct agctcttctt cgtgcccttc gccggcgacg 120
 agcattcacc agttgctgat gcaaggcttt caaaagtta acagtctcac ttgatgcaaa 180
 agcaacacaa tcaactctaaa ggtttggatc agtcatttca gagcatgggt tcgcggtttc 240
 catcccatca gctaagcaat ggcttgtatg tctctggccg acctgagcaa cctaaagaga 300
 aggccccagt catttgctcc tcggctatgc cgtacactgg cggngacata aagaaatctg 360
 gagaacttgg aaagatgttt gatctccata gaaaatctgg tccattgggt aatccgcctt 420
 caaggaatac t 431

<210> 19992
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-H7

<400> 19992

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ccgcatcact cccgccagat ctctgcaaa ccagggtgt tctgtatca gcacttcctc 120
agcgacgacg aggctaacca cctgatctcc ctgcgagag cggagctcaa gaggtcagcg 180
gtcgccgata atatgtctgg caagagcacg ctcaagtgg tccgcaccag ctccggcacc 240
ttcctcagga agggccagga tcctattgtt gaggttatag aggacaaaat tgctgcatgg 300
acattccttc caaaagagaa tggatgaag atccaagtcc taagatatataa gcatggggag 360
aagtatgaac cacactatga ttacttcact gacaatgtta acactgtncg tgggtg 415

<210> 19993

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-H8

<400> 19993

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ctctcttgat ctgagccatg gcggaggtgg agcagcaaca ggacacgccg aagctcttca 120
accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180
tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc ggggcgctac tccaagaagc 240
ggttccgcaa ggcgcagtgc ccgatcgttg agcgccttac aaactccctc atgatgcacg 300
ggcgcaacaa cggcaagaag gtcattggtg tccgcatcat caagcataacc ctggagatca 360
ttcacctgct caccgatgcc aaccccatcc aggtcgtcgt cgacgcgatc atcaacagtg 420
gacccc 426

<210> 19994

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A10

<400> 19994

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ttttttttta tttttttttt ttatttttaaa ttttatatat ttttttttatt atattttttt 120
tttttttttt ttttttttatt attattttta tttatatcag tatgaaaaga acataaccta 180

<210> 19997
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-E7

 <400> 19997

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 atatttatat taaatgcact aatttagtca catccagaat tacactgatt atcatgatac 120
 aaggtcaacg caacttccag gtctctcaac tgggaaacta gattgttacc aacacaatct 180
 cacagtagta aatcgcaact ttgcggtaaa ccctaaatca aacacaggca ttctaatacgc 240
 taaagatgta tcacgccaca actgcactca tttgatcaaa tgctactaat gtgctactaa 300
 atgagattca agctcctgcc tcagggcagc aattctgtgt tgctgaagag caatcctggt 360
 ctttacatct tgtccgagca gcttcttatt aaagctgtcg acaacgtggg aattccttgg 420
 c 421

<210> 19998
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-E8

 <400> 19998

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 atcgatgtcc agcttagtcc agaggagaaa gaaagttag atgacatcat caaggaagct 120
 gagagcgact tggagtctga ggaagtcttg gatcaatcca ttgccattgt tgccgagaat 180
 gaacgtctgg acaaggactc atctgcaaaa ctcaaatatt acactgtagg tgggtgttttg 240
 aagaatctga cagagggccc actgagtgtt atggataagc acatatatgc aggacacact 300
 gtcaaaccat tttccagcct gattggagct ggacagtctg gtt 343

<210> 19999
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F1

<400> 19999

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gtgccagtgc tgatataggg tcatggagca tgtcaatccc taatgaatgt gaaggaaacta 120
cagaacagtt atctgatggc tcagacaaat tgcctttgcg taagatagtg aaaacatgtg 180
ctttgacaag taccttgcaa tctaagacta gaacgaagtg gaaaaatgga gctgttaggt 240
gggcaggcag taaccaacag gatgttgaag aggctatccc tctgaatact tctcagttga 300
gtcagggcctt aaaagaatgc tttgaaagg 329

<210> 20000

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F10

<400> 20000

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ttcctgggtg aaccgattca aaatgccggc gtccgatgtt gagtaccgct gcttcgtcag 120
cggcctcgcc tgtgccacgg acgaccactc cctccacaac gccttcagca cctacggcga 180
ggtcctcgag tccaagatca tcctcgatcg ggagacgcag aggtcccgcg gcttcggcctt 240
cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga acggcaagga 300
gctggacggc cgcaacatca ccgtcaacga ggcccagtc cgcggcggcc gtggaggcgg 360
cggcggccgc aggtacggtg gtggccgtgg aggcggcggc tacggcgggtg gcgggcggcg 420
tgat 424

<210> 20001

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F11

<400> 20001

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aggcaagctg tagagcttag tgcaatcata gcatgggatg gcgtcgccgt tcgccggggc 120
aactggacag acagtgacgg cctcggcggc taagaagcgg tccgtctgcg tcacgtacgt 180
cgagggcatg aacgcctaca gctgcttcag gtgcttatct aggcgaacat gctcgggggtg 240
cgcatgaccg ctgactactc cttcgtcatg gtcgtggcgt cgctc 285

<210> 20002
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-001-Q1-K2-F12
<400> 20002

agaaatccgc tcgcacctcg acgcaccgcg cacgaaccga ccaccttccg gccccaccac 60
tcccccgcg cgcccggtg atcaccgccc gcccccgccc tcacctggc cgccttgagg 120
aaaagcaagg ccaacgcctt ctctctctcc tctctccac cgaggtcgcg ccgcgcgctt 180
gccgtcacga tggccgcgctc gctgctcgtg ctgcgcgtgg cgttcctggt tggcgtggc 240
cacggcggca tcgatggggg tgcagcagct cacgtggagg tagagggctc tgaggtgacc 300
tacgggagtg tgattaagct gttgcacgag aagacaaagc accgtctgca ctcacatgat 360
gtgccgtacg gtcaggcag cggtcagcag tctgtcaccg gctttcctga aggcgatgac 420

<210> 20003
<211> 423
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-F2
<400> 20003

acaaggcgca ggtttgcaca cagcgggtcat ggaagaggcc ctatggtggt ggccctcctag 60
ttgctggact ggacgagtca ggggctcatc tgtactacaa ctgccccagc gggaactact 120
ttgagtacca ggcatttgcc atcgggttctc gttcccaagc cgccaagact ttcctggagc 180
gcaggttcca gggctacaat gactacaccc cggagcagct catcaaggac gccctctccg 240
ccataaagga gacgctgcag ggtgagaagc tatccagctc caactgcacg gtggccatcg 300
taggcaggaa ggaggacggc accatcgagc cgttcgagat gattggcgcc gcaaggatac 360

aggaacttat cgnactcatt gaggtcgccg aggaggcgcc cgcgaggag gccagctcca 420
tgc 423

<210> 20004
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F3

<400> 20004

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cctgcgagcg atgggcatcg tgcacgtcgt ctccgagttc tgctccttgc cgaggactcg 120
ccggcatctc aagaagagga agcagttcca gacggtggag atgaaggtgc gcatcgactg 180
cgaagggtgc gagcgcaagg tgaagaaggc ggtggagggc atgaagggcg tgagctccgt 240
ggaggtggcg gccaaagcaga acaagggtgac ggtcacgggc tacgtggacg ccaccaaagt 300
catgcgccgc gtcggcctac agacaagcaa accggtggga gccctgcccc tacgtgccct 360
acgagatggt gcagcacccc tacgcgccgg gcgcctacga c 401

<210> 20005
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F4

<400> 20005

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ccggcgagcg atgggcatcg tgcacgtcat ctccgagttc tgctccttgc cgaggactcg 120
acggcatctc aagaagagga agcagttcca gacggtggag atgaacgtgc gcattgactg 180
cgaagggtgc gagcgagggg tgcagaatgc ggtggagggc ctgaagggcc tgagctccgt 240
ggaggtggcg gccaaagcaga acaaggcgac gcgaacggac tacgtggacg ccaccaatgt 300
catgcgccgc gtcacctacg agacaggcaa gcagctggag cactggccct acgtgcccta 360
cgagatggtg cactacccta cacgcccggc gc 392

<210> 20006
 <211> 220
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-F5

 <400> 20006

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 tgaccttagt tgtttgggcc ttgcattgac cttggtaaag gcattatcta aaattccgag 120
 tgtctttttc tctttaatga aaacctttga tttggccaaa aaaaaagcat ccaatgctta 180
 agaagcttaa gaaaaggggg gccggtttta ggattcaagc 220

<210> 20007
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-F6

 <400> 20007

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 cgaatcgacc cgccccgacg cagatcagga gctgagggat ggacgcgaac aggcgccaga 120
 gtgggatcca gcagttgctg gctgcggagc aggaggctca gcaaattgtg aatgccgcta 180
 gagctgccaa gtcagcgagg ctcaggcaag caaaagagga ggctgagcgg gaaatagccg 240
 aataccgtgc ccagatggag gctgagtttc agaggaaggt tgcagagagc agcggcgact 300
 ccggtgcaaa cgtcaagcgt ctcgaggaag aaacggcggc gaagatcgag caactcacc 360
 agcaggccgc aagcatctcc ccgatgtca ttcagatgct tctgcggcat gtcaccaccg 420
 tcaagaactg 430

<210> 20008
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-F8

 <400> 20008

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tatcttcagg ttgatgctct tggaagagta tctttttctt ccatacggag gcctcggctct 120
cttcttgaag tcgaccatcc ttcattctgct gatggctctc atgatcagaa gtccactgtg 180
aggcccttgg agaaagaacc aatgcttgca gcaagagtca ctgttgaaga cgccctttgc 240
cttgttcttg aggttgatga cactgaccgt ctgttgcagt ctagccagtc acaggacaac 300
atcttcgaac tgaaacgaag acggcaagtc ctccttgaag gtctagctgc atcattgcag 360
ttt 363

<210> 20009
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F9

<400> 20009
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tctcgagttg cagctatcct gtgcataccg atcctctttg cctacccta catgacgtac 120
ctgtcggaac ctggattgtc aatcgttttg aatattgcgt cagtgataaa gaataatctc 180
ggtgtcacca tcattacagg cacttttcac cttcaaaaca atgccgtgcc tcaggaccag 240
cgaggcgctg cgaatggact gtccatgact gggatgtcct ttttcaaggc acttgctcca 300
gcaggagcat gcattgtgtt ctcatgggag cagaaacgcc agcatgcgtt tttcttccca 360
ggtgaccaga tgggtattctt ccttctgaac gccgtcgagc tggtcgggct 410

<210> 20010
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-G1

<400> 20010
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tcctccctgg ttaaaagcta acgaacacga tccaaagaat ttgtcactca aaagctgtgg 120
tctttcttcc cggaaaggga aattgaggaa actcaatcca aacaggggtg gtgctgcatg 180
ggcagaaaga agaagagctg atatggaaat ggataagcaa ggtgaaattg ttccagcaac 240

atctgattct agttggctgc ctaatttttg tagtgtcttg caaatctgcc ccaggggaagg 300
 atcaagggaa ggatttttga aaagccacaa gattcatgac acgaagagcg accatgactt 360
 atccttggag ataaaacat atatcagcaa acgga 395

<210> 20011
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-G10
 <400> 20011

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 gaacgtgcag aatggcgagg aggtggctgt caaactggaa tcagtcacat caccgacatcc 120
 acagcttcac tatgaatcaa aactatacat gcttttgcag ggtggaactg ggattccaca 180
 tcttaagtgg ttcgggggtg aggggcagta caatgtcatg gtgattgatc tgcttggtcc 240
 aagtctggag gacttattta actactgcag cagaaagttc tcccttaaaa cagtactaat 300
 gctngctgat cagatgatca gtagagtaga atacatgcac acaaaggggt ttctacatcg 360
 tgacatcaaa cctgattatt ttctcatggg tttaagacg 399

<210> 20012
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-G12
 <400> 20012

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 agaagcgaag ctgctgcgcc ctaccctgcc acatctcacg tcttactggt cactaaccag 120
 acgagagagc tagcgcagtt cggccgtcgg tcgcgtacga cttcagcaaa ggcgagcgcc 180
 caccgtctga cctattacc ttcctatcgg gtccaattcg gagcctggct aactccgcac 240
 gtctttaccc cttttccctt ccccgaccga cgaccgtacg tccaccaccg gatccaggag 300
 cgaccctcct tagtgctacg tgacgatcga ccggccgacg atcgatcacg aaggatgtct 360

<210> 20013
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-E6

<400> 20013

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atattgatat taaatgcaaa aatttagtca gtcacagaat tacactgatt atcatgttac 120
aaggtcattg caacttccag gtctctcaac tgggaaacta gatggttacc gacacaatct 180
cagagtagta gatttcaata ttggggtaaa ccctaaacca aacaaaggca gtctaatacg 240
taaagatgta tcacgccaca gcagcactca tttgctcaaa tctcactaat gtactctaaa 300
agagattcaa cctcctgcct cagggcagca attttctgct gctgcaaagc aatcctgttc 360
tctacatctt gcccgcgag cttcttctca aagctgtcga caacggtgga atgccttgct 420
atgagcttct cctg 434

<210> 20014
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-D2

<400> 20014

ggattgcagg agtgcgcgaa gatgaagagt ccggcctcct ccccgcccg tccgcagccg 60
gccgacggcc gtccctccgc ggcctccgct tcccgctcc accggcagcc tgggcgacgg 120
tggacggccc cctcgggctt ccgctggagg acgcggagg ccacgcccgc cgcttcttca 180
tgtgggggtt cgcgtgcctc cccttctct gggccatcaa ctgctgtac ttctggcccg 240
tctccgctc gtgggtgcgc tctcgcgcgc ccgcttcgc ccccatccgc ccctatgttg 300
tgcggtcggc aattggttc accatcttct ccgttggtct ggtcacctgg gccacgacct 360
tcgtcgtcgg aggcgagcgg ttatttgggc cagtgtggaa 400

<210> 20015

<211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-D3

 <400> 20015

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 tggatacggc atcaagaaga tgactatcat gttgacaatt gtcgacgac ttgtgtccat 120
 cgacactcta attgaggacc accttacgca agagcccatc aatgagtacg tccagagttg 180
 cgacattgtg gctttcaaca agatctagag ttcagtttct gagattgggc aacggcagcg 240
 gctcagctcg tcaagtttgt gctgggatgc cagtttatcc cctctagtct attacagaaa 300
 tgttgttcgg aactgagtct aatataaaca tncctggtctg agtttattgg tgagtgggtgc 360
 cagttttttt caatatacat ttatcttaan aacagcggta ctgatgtttt ttggcctaaa 420

<210> 20016
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-D4

 <400> 20016

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 caacggcccc gtcgctagcg gccccggcag ccaagaggag gccccgccg ggcgtcacgt 120
 acgtggaggg catgaacgcc tacagcggcc tcaaggggct caacaagggtg accatgctcg 180
 ggggtgcgca gaccgccgac tactccttca ccaaggctcg ggcgtcgctc agcctcgcg 240
 gcaggaagcg gcgcggcgga gcgttcggcg cccagatgag gttttacgct tacacagtgg 300
 ggacggttgc acgacgtgag caagcgcagc gaagccagca caaccgccg cggaacaagcg 360
 tccccataga cgagatccat ggcggagcgc cggaagagcg tctcctccat gccgtttgct 420
 tcggcgagcg ccg 433

<210> 20017
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-D5

<400> 20017

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tacaccagct tcggcgcgat ggtggccatc gacgaccgc tgacgacagg cccgacgcgc 120
gccgcgggca ccgaggtggg ccgcgcccag tgcacctaca cgtctgcgga ccagcacacg 180
ttcggcctac taatggtgat ggacttcgtg ttcacggccg gggagcaca gggcagcacg 240
ctctccatcc tcggccgcaa cgaggtactc agcgacttac gcgagatgag catcgtcggc 300
ggcagcgga agtcccgaat gaaccccggt tacttcaagc ccccaacct 349

<210> 20018

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-D6

<400> 20018

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tcatgaagag ttctgaagcc ataggtcttg caccaagaac gaaggacaag tgcaagaaca 120
agagctgaag aagatgcagt gttaaagatg ttgcccattg tatcagaaga atgggtccct 180
tgcagtgcgc tgccgttttt ttttctctac tagaaatata acgcgtttta attactagtt 240
ggagggagac ctgtcttggt caactcggtc atggaccaga agcaataata tatccgtgtg 300
tagctggatt ggtgttatgt catgtccct accgtgtctc ccagaatcta cttggtgatt 360
ttattccagt gttgttaatc aagtttatgt gattgttaag taaagggcat caatgggact 420
attattattt aaaa 434

<210> 20019

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-001-Q1-K2-D7

<400> 20019

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agcggcgacc tcaccagctc cgagcagcag caggaggct cgtggaacca ttagtcgttt 120
tctggcagcg gcatggaggg gctgagctgg aaaacggtgt gttgtttatc ggtgctctgt 180
gccgtgctg tcttgcgccc ggccgagggc atncgcttcg tgatcgatag ggaagagtgc 240
ttctcgcata acgtggaata cgagggggat actgtccatg tacccttcgt cgatcatcaag 300
gctgacaccc cgtggcatta cagcgaggag ggcgtcgatc ttgtgggtaa ggatcctaata 360
ggcgctcaag tccgggattc ccga 384

<210> 20020
<211> 430
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-D8
<400> 20020

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agcggcgacc tcaccagctc cgagcagcag caggaggct cgtggaacca ttagtcgttt 120
tctggcagcg gcatggaggg gctgagctgg agaacggtgt gttgtttatc ggtgctctgt 180
gccgtgctgt tcttgcgccc ggccgagggc atccgcttcg tgatcgatag ggaagagtgc 240
ttctcgcata acgtggaata cgagggggat actgtccatg tacccttcgt cgatcatcaag 300
gctgacaccc cgtggcatta cagcgaggag ggcgtcgatc ttgtgggtaa ggatcctaata 360
ggcgctcaag tncgtgattc ccgagataag actagtgcga agtttgagtt catagttcag 420
aagagaggcg 430

<210> 20021
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-D9
<400> 20021

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gctcgcggtg ctccgggtct cctcgtcgcc gctcgtcttc gcgtgggaga aggcgcaacc 120
ggagtgccac tcgtgcgagt ccggctcgcc gccctcaacc ggcgcccc tgcccccaat 180
cagcataccg tcagtcccc tgccccagtc cagcataccg tcagtccac tgccccctgt 240
cagtataccg tcgggtccca tcccaccggt caccagctg ccccagtcg tcggactgcc 300
gccggtgacc ctctcttcca ttccgatcat cggaggaagc ccgccgaaga aaggccaccg 360
gaaggcgtgc ccgcgcnctc cgtctccnc gacgccacg cncacgcnca cgccgtctc 420
ggacaagtgc cccatcgacg cgctg 445

<210> 20022
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-E10

<400> 20022

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ctccacctc gccgcgcag ccatggcgat cacagcgcca actcccgaca tcctcggcga 120
gcgccagtcc ggccaggacg tccgcacgca gaacgtgatg gcttgcggg cggtggccaa 180
catcgtcaaa tcctcgtcgc gcccgttg tctcgacaag atgctagtgg atgatattgg 240
tgatgttaca atcactaatg atggagcaac catacttaag atgttggaag ttgagcatcc 300
agccgccaag gttcttggtg agttggctga gtcgaagat cgtgaggtag gagatggaac 360
tacttcggtt gtcacatag cggcagagtt actcaagaga ggcaatg 407

<210> 20023
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-E11

<400> 20023

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aaatcgttcc tgaacagccc cgtcggcccc aagaccacc acttctgggg ccctgtcgcc 120
aactggggct tcgtcatcgc gggtttggtt gacatgaaca agcctcctga aatgatattc 180

ggcaatatga cagcagccat gtgtgtgtat tctggactct ntatgagggt tgcattggatg 240
gtacagcccc gaaattatct gcttctagca tgccatgctt gcaatgaaag cgtccagctg 300
tatcagttat ctgcgtgggc taggtctcag gggtagctgg agaagaaaga gccagaggcc 360
aaacagtaaa gagggatatcc aacactgcag tcatttggtc aataaagaaa atatgctgtg 420
gaaaaca 427

<210> 20024
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-E12

<400> 20024

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taaagaggtg ttaaaagaag ttagccaatt gttggaattg atgaacggta aaacactact 120
cgagcaagcg aggttaaatt tgctagaaaa cttagaacac gatacactta ctaaatagtg 180
aagtcataatc gttatattca aatgggtacta cgaagaacga gatgcagtca cgagcttatac 240
attgtgcctt tggagtcaag ttgtgctaac aatagaactc taccttagca agggatcatga 300
catagtatta gtatctatag tctactccgg tgtatagatc tgagtgtatt ttttgggagt 360
tcattcattaa aatgctgggtg atgcaatctg tcgagagttg gaacatgggtg atactccaga 420

<210> 20025
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-E2

<400> 20025

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cggcgaggcg aggcgaagca aagcaccggc tggctcccat ggccgtggac ctgatgggggt 120
gctacgcccc gcgcccgcgc aacgaccagc tcgcatcca ggaggcggcg gcggcggggc 180
tccgcagcct ggagctcctc gtgtcgtcgc tgtccacgca ggccgcccgc cgcacaggg 240

ccgcgggtca ccagctgcag aagccgcctt cgcagccgcc gatcggcgag atcgccgacc 300
aggccgtctc caggttccgc aaggtcatct ccatactgga ccgcaccggc cacgcccgt 360
tccggcgggg gcccgtcgtc gagccgnac cggtgctgc tccggccgtc gccgtccccg 420
ctccggcccc c 431

<210> 20026
<211> 388
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-001-Q1-K2-E3
<400> 20026

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cggcgaggcg aggcgaatca aagcaccggc tggctcccat ggccgcggac ctgatggggt 120
gctacgcccc gcgccgagcc aacgaccagc tagccatcca ggaggcggcc gcagcggacg 180
ctccaaagcc tggagctcct cgtgtcgtac gctgtccacg cacgccgacg cgccgaacaa 240
ggccgatgct caccagctgc agaagccggc ttcgcagacg ccgatcggcg agatcgccga 300
cgcaggccgt ctgcaggttc cagcaggtca tctgcatact ggaccgcacc ggccacgcgc 360
gcttgcgacg cgggcccgtc gtctagcc 388

<210> 20027
<211> 432
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-E4
<400> 20027

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ctgctgtatt cgacaaagaa aaggcccaag agcgtttatc taagttatct ggagggtgtg 120
ctgtactcaa gattggtgga gctagtgaag ctgaagttgg tgagaaaaaa gatagggtga 180
cagatgctct aaatgctgca agggctgctg tggaggaggg cattgtgcca ggtggtggag 240
ttgcccttct ttatgccacc aaggagcttg acaagattag cacagcaaac gaggacgaaa 300
agattggagt tcaaattatc aagaattctt tgaaggcttc cttgatgacc atagctgcaa 360

atgctggcat tgatggagct atagtcata ggaactgat tgaacaagag gacctcagtt 420

gngctatgat gc 432

<210> 20028
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-E5

<400> 20028

gggaagtga ctagcgggtcc acgatactcc gacgcccact ttgctacctc ggagccctag 60

ccgccgcccc tggatatcgc cggagaccgg cgccggtagc gatacgcaaa aggagtggta 120

cgttctttga ccttgtttat tgctgcgccc gaggcgtgtg gcgcgggggg agcaggaagg 180

agaggggaag aacagaaggg gaaggcgggc ggggccgcga tgctcgggtgcg gatcaaggcg 240

gtttagtagacc ggttcgtgaa ggagctgcag gaggcgctgg acgcggacat ccaagaccgc 300

gtcatgaagg agcgcgagat gcagagctac atcgaggagc gcgagcgcca ggctcgccgag 360

cggg 364

<210> 20029
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-D12

<400> 20029

cagaaatcca gctcgcacct agtacactct tacgcacgat acctaacaac ttcccaaggc 60

gaccactttg tcgctcgcgc tttgctatca ccggcagacc ccacctcac cctaaacgcc 120

ttgactaaaa gcacagacaa cgacctata ctctactac tatacacaga cgtcacgccg 180

agcgcttggc gttacgattg ccgcgtcact ggtagtgctc aacgtggcct tcctcgatatg 240

cgctagccac tgcagtctcg atggctgtac aagcgatca 279

<210> 20030
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B5

<400> 20030

gaacctcgcc gaccacctcg ccgaccccggt caacaacaac gcatggggcct acgccaccaa 60
ctttgtgccc ggcaagttag ggggtcggag gcgccaccgc ccaccggcca ccgctgcgga 120
tatctaggtg ttcggatgca cgtgagcgcg cactggttcc agtttgtacc atgatgtaaa 180
ttacttaccg taccagggtt caatcggcaa ggaagaattg ttgtgttc 228

<210> 20031

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B6

<400> 20031

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ggttctgcgc ctctgaacct ttccgaccgt cttcaccagg tccttcgctg ggcccttggg 120
tccgtcgaaa ttttcttcag caagcactgc ccactttggt acggatacgg cggcgggcta 180
aaattcctgg aaaggttttc ttatatcaac tccatcgttt atccctggac gtccattcct 240
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gagcttacca atgtcgccag tatctgggtc atggcacttt tcatctgcat ctccgtgacc 360
ggcatcctgg aaatgaggtg gagtggcgtg gccatcgacg actggtggaa gaacgagcag 420
ttctgggtca tcgg 434

<210> 20032

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B7

<400> 20032

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tgtacttctc ctatgaacgt atccaaccga cttgaccaa 99

<210> 20033
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B8

<400> 20033

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ggcgtcggcg tccaaggagg aggtgatcgg gaagctcaac gtccgcgtgg tgcggggcaa 120
caacctgggtc atcgccgacc cgctcaccca caccagcgac ccctacgtcg tcctccagta 180
cggcgctcag aaggtgaaga ctagtgtcca gaagaagaac tccaatccag tgtggaacga 240
agtactgcag ctctcagtaa cacatcctac gaagccagtg caccttgaag tttttgatga 300
agacaagtgc acagcagacg acagcatggg tggtgctgag atcaacatta ctgacatcta 360
cgatgctgcg aagctggacc tgaagcacgc ctctgatggg acaaggatca agacgatcta 420
ccctgt 426

<210> 20034
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C1

<400> 20034

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ctttcacttc tcgagctgtg tggacctgtc aagagttgga agcgtgccga agatccaagt 120
aatggaaaac ctaaagggtt tgggttttgt gagtttgaat ctgctgaagg catccttcgt 180
gcgacacggc ttctcaacaa attgagcctt gatggtcagg aactggtgat taatataaat 240
gatgccacca aggagtacct gaagaaacat gttgaggaaa agaagagagg cccagtgaag 300
tcaa 304

<210> 20035
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C10

<400> 20035

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aggtcgcccc tggatgatgaa cctgctgaag ctggtagtga tgacagtgat gacgatagcg 120

atgatgatgt gatggatgta gacatcgcg caacctcttc taaagggtca aggagtaaaa 180

aggcagggtca aggacagagt tcgagtcagc cggcatcgga tttctatgca gatctatagt 240

cgtcaagttt cctaagttag aagctgagta ctctctcta tggttcattc tgggttactg 300

tacgcgagtg cgtgtgagag tgggcaactt tgaccgccg tgcatggcat gccaaatggt 360

gttttatgta taagtatatc gctgatggca tttatcagaa gtagaagc 408

<210> 20036

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C11

<400> 20036

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cctacttcta tccagggcct ctccactttg ctaagagaac catatgttag gacattattt 120

gttcaagctg atggcatcaa gctgctcatt cccttaattt cccagcttc cacacaacag 180

tcaattcaac ttcctttatg aaacttgct ctgcatctgg cttttatcct tttatgatgc 240

tgcagttgat tatttgtcca ccacaagggt tatgccaaga cttgtagagg ttgtcaaggg 300

ctctactaaa gagaaagtgg tcagagttgt tgtgtgtgcc ttccgcaatt tgctggcaaa 360

gggtgcattt gctgcccaga tgatgatct tggattgcca caaatgggtac aaaacttgaa 420

agctcaagca tggactgatg agga 444

<210> 20037

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C12

<400> 20037

gacaatcaaa agctaccccc tatccgatcc aacctctct ggctgctacc tcgttcggcc 60

ggcatcggca gtgcacgatg gctctgagga tgtgggagag ctcagccgac aatgcgctca 120
agctctcggc gggcgggggc ggagcccggg ctgctgctgc cggcccggcc ttctctatct 180
ccaggttctt ctccactgtt cacgatgggt tgaagtacac tcagtctcac gaatgggtca 240
agacgacggg cgacgtcgcc accgttggca tcacggacca tgctcagggc cacctgtgag 300
aggtgggtgtt cgtggagctg ccggaacccg gcacgaaggt cgccgaggga ggacccttcg 360
gcaacgtgga gagtgtcaag gccaccagcg acgtcaactc cccgatctac ggcg 414

<210> 20038
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C2

<400> 20038

caatcaacca gcaacactct tctcttataa catagtacag cgaaggtaac tcacatggca 60
acttccatgg gttgtctcgt cttgctctgc cttgtttctt ctctccttcc cagtgcgctc 120
cttggccacc catgggggtg cttgttccca cagttctatg accattcgtg cccaaggcg 180
aaggagattg tgcagtcctt tgtggcacag gctgtggcca aggagaccag gatggcggca 240
tctttagtca gactgcattt ccatgactgc tttgtcaagg gctgcgatgc ttcgggtgctg 300
ttggacaaca gcagcagcat agttagttag aaaggtcca acccgaaacag gaactccctc 360
aggggggttg aggtgatcga ccagattaag gctgctcttg aggtgcctg cccaggcaca 420
gtctcctgtg ccgaca 436

<210> 20039
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C3

<400> 20039

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tagacttgca gacgttgtgc aacatagaag gctgggatgc gtacgcgttg gcttttcagg 120
cgacggaaga gcaggacat cttcaattca tgaaccctg catggaggat gatccaactt 180

gtggctcctat cctagacaac gttgccggca agaagctctt caccacagac aaaccaaagg 240
 ataacgtggt gctgaatgga gactttgacg aggggtccatg gatgggtccc aacacgagct 300
 tcggcgtgct gctcccaact aaccttgacg agcaaagctc tgccatacct ggttgatga 360
 tcgagtcaaa ccgcgccgctc cgctacatag actctgatga g 401

<210> 20040
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-C4
 <400> 20040

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 agatggagag attgcaaagt tttagaggagg aacacaagaa tgctctccag agagcaaaga 120
 ccctggatgt tctcatgct gcggacctgt ctgaagagga gattcaggag gatagcactg 180
 caccaccctc tgatactcat agcgaaacaa ccacggaaac aaaatctgga ggtagaacga 240
 gttgggacga actgatggag aagcttttca ccagggatga agatgggaga cttgtcgtga 300
 acaaggacgc gatggcgagg gaaattgttg tctgtaacg agtgccgaga ctgctctgtc 360
 cgtggtagtt tattctatta gcgaactgta taaaagagt agcttgcggt gtgatata 420
 taaaactggt ttcaacaac 439

<210> 20041
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-C5
 <400> 20041

aaaaggcttt agagctaattg ataaacatca cgaaggaaac gactccacct ccggagcgaa 60
 agatggagag attgcaaagt tttagaggagg aacacaagaa tgctctccag agagcaaaga 120
 ccctggatgt tctcatgct gcggacctgt ctgaagagga gattcaggag gatagcactg 180
 caccaccctc tgatactcat agcgaaacaa ccacggaaac aaaatctgga agtagaacga 240

gttgggacga actgatggag aagcttttca ccagggatga agatgggaga cttgtcgtga 300
acaaggacgc gatggcgagg gaaattgttg tcctgtaacg agtgccgaga ctgctctgtc 360
cgtggtagtt tattctatta gcgagctgta taaaagag 398

<210> 20042
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-C6

<400> 20042

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gctatcgaga ttgcggaagc cgtggttggt gcgctgagag gggagctcgc agcaaccgct 120
gtgaatgcgc ccatgggtccc agctgagatc ctgtcagagc tggctccata tgtttctctg 180
gccgagaagc tcgggaggct ggcggtgcag ctctggccg gcgagagcgg catcaagggc 240
gtgaagggtg tgtaaccac agcgctggc cccgacgacc tggacactcg gtcctccgc 300
gcgatggtga ccaagggcct ggtggagccg gtgtccagca cgttcgtgaa cctggtgaaa 360
cgcgactaca cggccaaaca gcgcgccctt cgnctcacgg aggagcgcgt ggcgcacgac 420
agccccgcgg cg 432

<210> 20043
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C9

<400> 20043

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tgggcgcgcg ccctgggtgca gatctcgccc tacaccttct ccgccatcgg catcgccgtc 120
tccatcgggc tctctgttct cggcgcgga tggggtatct tcatcacggg gagcagcctc 180
atcggggccc ccatcaaagc gccaggatc acatctaaga acctcatcag tgatcatctc 240
tgtgaggctg ttgcaattta tgggtgaatt gtggcaatca tcctccagac aaagcttgaa 300
agtggtgcaa catcccaaat gtacgatccg gagtctcttc gagctggcta tgcgatcttt 360

gcatctgggc ttatcgttgg ctccgctaatt cttgtttgcg gggatatgtgt ggggataatc 420
ggaagcag 428

<210> 20044
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-D10

<400> 20044

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gctcgcagtg ctcacgctct attcgacgtc gctcgtcttc gcgtgggaaa aggcgcaccc 120
cgagtgccac tcgtgcgagt cctgctcgcc gccctcaacc ggccttcccc tgccccctat 180
cagcataccg tcagtcccc tgccatcagt catcataccg tcagttccac tgcccactgt 240
cagtataccg tctgtccaca tcccaccggg caccatctt cccacagtcc tcagactgcc 300
gccagtgacc cttcctgcca ttccgatcat cggatgaagc c 341

<210> 20045
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A1

<400> 20045

catctctcca cacaactaag aagccagcgg cagtaacagg agtgaagcaa aaaaatggca 60
tcatcaacgg gatcagagat gagcgaggaa atcgatgtcc agcttagtcc agaggagaaa 120
gaaagtttag atgagatcat caaggaagct gagagcgact tggagtctga ggaagtcctg 180
gatcaatccc ttgccattgt tgccgagaat gaaggtctgg acaaggacgc agctgcaaaa 240
ctcacaattt aactgtagg tgggtgtttg aagaatctga cagagggccc cttgagtgtt 300
atggataagc acatatatgc aggacacact gtca 334

<210> 20046
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A10

<400> 20046

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caccagcata acaaaaggat gagctgccct gccatggcac agctcctctc caataccctg 180
tactacaagc gcttcttccc atattacgcc ttcaatgtgc tcggtgggct tgacagcgag 240
gggaaagggt gtgttttcac ctatgatgca gtaggttctt atgagagaac tggttatagt 300
gctcaaggaa cgggatctac tttgattatg ccagtcctgg acaatcaact aaaatcacca 360
agtcctctat tgctccctgc cagggatgct gtcacaccat tgtcggaatc agaggccatc 420
gatctagtta aggatgtggt 440

<210> 20047

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A11

<400> 20047

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cgattgtgtc gtcataagag agcgggtcttc tgggcgatct cgcgggtttg gctatgtaac 120
attcgctca gctgacgatg caaagaatgt tcttgattgc gagcatgttc ttgggagccg 180
tacattagaa gtgaaggtag ctactccaaa ggaagaaatg aaatcacaag gatcaaagaa 240
agctacaagg atattcgttg ctogaattcc gcaatcgggt gatgagtcga tgtttcgtag 300
acattttgaa gcttttgggg aaattcttga tctttacatg ccaaaggaac atggttcaaa 360
agggcacgtt ggaattgggt ttatcacgtt tc 392

<210> 20048

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A12

<400> 20048

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catgtcgtcc accgacatcg tggcgctgtg ccaggccgtg gacctgcgcc acctcgagga 120
gaacatcaag gcgtcgggtga agaacaccgt gaccaggtg gccagaaggg tgctgacat 180
gaacccctcg ggcgagctct ccagcgcccg cttcagcgag aaggagctga tcagcgccat 240
cgaccgcgag gccgtgttca cgtacgcgga ggacgcggcc agcgccagcc tgccgtgat 300
gcagaagctg cgcgcctgtc tgggtggacca cgccctcagc agcggcgacg cggagcggga 360
gcccttcgtg ttctccaaga tcaccaggtt cgaagaggag ctccgcgcgg tgct 414

<210> 20049

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A2

<400> 20049

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aatgcaagcg ctacttccac aaccgcctga agcctgcaaa gcttacctgg acagcaatgt 120
acaggaagca gcacaagaag gatatacatg ctgaggctgt caagaagagg cgccgcgcca 180
ccaagaagcc atactcgagg tccattgtgg gtgcttcctt agagggtgatc cagaagaaga 240
gggctgagaa gcccagaggtc cgcgatgctg ctagagaagc tgctcttcgt gagatcaaag 300
aacgcatcaa gaagaacaag gattaaaaga aagccaaaaa agcttaagt acc 353

<210> 20050

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A3

<400> 20050

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aggccttgaa ctattgaagg cagccataga aaaggctggc tacactggaa aggtgggtcat 120
tggaatggat gttgctgctt ctgagttctt cggtgagaaa gacaagactt atgatcttaa 180
tttcaaggag gagaacaacg atggctcaaa caaaatttca ggcgacagcc tgaaagacct 240

gtacaagtcc tttgtttctg agtaccctat cgagtcgatc gaagatccat ttgatcagga 300
 tgactggagc acttatgcc aactcactga tgagattgga cagaaagtgc agattgtagg 360
 agatgatctt ctcgttacca 380

<210> 20051
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-A4
 <400> 20051

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 ctcgacaacg gcgtacgcc cctactagtg ctctccatca gagccagcgc ctgctacacc 120
 ggcgagtgcg acatttccag tactcccgtt cccgctcatt ccttgtctgc gaaagagctg 180
 actcacgaga ccaacgagga tgtcgagaac atcgaggact agtacatggt cacaggctac 240
 gggaacgcat acgtacacaa ctacttacgc gttcagtacg gtatggagt 289

<210> 20052
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-A5
 <400> 20052

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 attgtgcacg ataacgacga cacagtgcag tcagaagagc attggtttgt gcgaagggtgc 120
 agagggctgt gggcaatggc aggggagagg ctagggttca ctgacgagga gagattgagg 180
 aagttgcaga ctaagaaact tgtgctcgca agcaggctat ctgattataa ggaaggggtgc 240
 gcccctggcg ctggtgtagc ttttgtggtg tttaaagatg tctacaccgc aaacaaggcg 300
 gtaaaggatt tcaagatgga gaggaagaag acaccgattg gtaggttttt cccagtgatg 360
 gagctccagc tcgagagaag tcgatggaaa gtggagagag caccaccggc atcagatatc 420
 tactgg 426

<210> 20053
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A6

<400> 20053

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 cctgaatatg ttgataagag ggctctacta gacaggctat gtagggcgct gggagggtgca 120
 gagaaagtcg agatagaatg gggaaaccat gctctgtcca acagagtgca agaagcagtt 180
 gtggccattg tagattttgt caagaggag gggcccaaag gctgggacga cccatggagc 240
 tagatacagc agttataatc tcatttgtaa ctagtgtgtg cttttcctct tctctctttt 300
 ctccaattgt aacatctttc ttttgcatTA ttattgggtcc atttttcaat agtgatatgc 360
 tatttttctt ataaccctt ccccaaaca tgcacgcgt tctcattcta gtatggtgta 420
 tcacatat 428

<210> 20054
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A7

<400> 20054

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 gatggtgttt cctgccatcc tcccaagggt ggccgtgcga ttgctcttca cgttctaccg 180
 cgccgccagg aagctcaggc gccacgcctt ccagctctac aaccgtagga ccgccgcaa 240
 gccgccttcg ttctccgtct cccagcagca ggccggtgcc gccaccttca agaccgacgc 300
 cgccatccct gacgccgccc gccggaccgt cgtctgtgac gtgcacggag ccctgctgcg 360
 ctctccgcg ctcttccctt acttcatggt cgtggcctac g 401

<210> 20055
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A8

<400> 20055

ggggctcagg tcagagacat accttcttcc attggatttc tcataaactt gcagaccttg 60
agccttcaag gttgccaaag cttgcagaga cttcctcggc ccatcagggc attgctagag 120
cttagatgcc tttgtctcta tggaacttcc ctaagctatg taccaaaggg tgttggtaaa 180
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ggttgtgact tagatgacct taaagcattg tcagaactaa ggcaccttca tatagagagt 300
ttggataggg ctacttccgg tgcgtctgca ctgcgaaaca agccattcct agaggatctg 360
tacctctctg agcaagcacc agcaatagaa aatcaggagg atctggagga caaagatgaa 420
acagaaa 427

<210> 20056

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-001-Q1-K2-B1

<400> 20056

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cggcctggcg gccgaccctg agaagaagga gcggctgcag ctggcggaga tcaagcacgc 120
gcggctcgcc atggctgcct tcctcggtt cgccgtgcaa gccnccgga ccggcaaggg 180
gccgctcaac aactgggcca cccacctgag cgacccgctc cacaccaaca tcttcgacac 240
gttccgaagg tcctcttaag cccgccattg gtcgcgccg tccatcgacc ggccggaacg 300
tgttcttgga ttaattaact acgatctcta tgagcctggg gatggatcaa cccgtcgtgc 360
gtggtctcgt tttgtgatga gtgggagaga gaggatggca agatcgatcc tttngtaatg 420
gagatcctcg t 431

<210> 20057

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B10

<400> 20057

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atgccacagc ctgggggtat cagacctggt gatggtatga ttcggccttg tttggttggc 120
ccattacctg gacatcatgg tgctgtgttg ccttcttttg atcttgaacg tttgggtcag 180
ccacgtcctc ttggaatgtt gaacagcaat gactttggtg gtgatgggtt caacgcttca 240
gggggtgcag cgtatcctga aagacatgat aataccgaag acagtcggaa acattttcca 300
gcaccagccc ctctagatga tcaaggcttg cgaaaggacc ctaaacattt tgagag 356

<210> 20058

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B11

<400> 20058

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gatgtgctga atgatatcaa aacgaagggt gagttgtctc ataccaatgc tgagctaaga 120
ttacttgagg tcttttatca caagatatac aaggatattg caccaaataa aaagattgaa 180
aacatcaatg atcagtactg gacactgctg gcagaggagg ttccagagga ggagaaaaat 240
cttgcccctc tcgatcggtt gattcatgta tatcatttta caaaagacac tcaaaaccaa 300
acgcaagttc agaactttgg agaactttt tttatgggta ttcgtgagga tgagacccta 360
tcttctatca aagaacgtat acagaaaaag cttaagggtc cagatgagga tttctcaaag 420
tggaagtttg 430

<210> 20059

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B12

<400> 20059

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cctgctattc tcctaattga ccccgctact gggcaaaaag tacatgcttg gaatggaatg 120
 gttcaccag accgtttact cgaggattta ctaccttacc tggataaagg tccgaagggg 180
 caccatgcag ctcaacctca aaagcgccca aggaaagttg atcaggaagc ttctacgggc 240
 aagcaaggca aaatcgctgt agaggatgag gatgaagaac tagcaagggc aatagcagct 300
 tcgctagagg tagtcattga agcatcagac gccagtgatg atgatatggc tgaagctgaa 360
 cctgatgagg aaaatgagcc cagcttaaac atcaagcctg 400

<210> 20060
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B2

<400> 20060

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 ggggggttgca tgagtctgat gagcttgatg cgagctgcaa attctagcat tggcagagcc 120
 atccttgagc cacacatggg acagctagta cactcagagc aatgatcatt cgtgccccaa 180
 tggcgaacga aattagtcac gacattcatg aacatgctat tgacatagag tccaggatgc 240
 cggaata 247

<210> 20061
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-H6

<400> 20061

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 gccctactag atcccgtggg gagaggctgt ttctcattat actctttagt ccacctgtgt 120
 cttcactgac aaggacaaat ctgccagcac atctgaatgg tattgcaaaa aaggacgcta 180
 tctctgcccc aagcatatat gcacccatgt ttgttcttag tgtcaatgag gacaagctca 240
 cctcccatgt taacattgat tacaatgcta gctgcaccac aaactgactt gctaccctcg 300
 ctaagggtcaa tcatgacaac ta 322

<210> 20062
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-035-Q1-K1-H2

 <400> 20062

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 tggcactgac gcgattcgca aggagctagc tgagcgtaca gaccacgaaa ggtgtcacta 120
 ccatcatcgg cggcggcgac tctgttgctg ctgtcgagaa ggctgggctg gccgacaaga 180
 tgagccacat ttcgaccggc tgctgtgcga gcttggaaact cttggaaggc aagactctac 240
 ctggtgtcct tgccttcgat gactcctaga tccgtctgtg ctgctgctac tcaagttctg 300
 ccagctttgc gtgtcatctt gtttcggacc ttggtgtaac actgcaaggc taaagtttac 360
 tctnccgac atggacttct ggcgataggc ttgccaccgt gtattgctag atgagtcgtg 420
 gaataagctt ttacttcctc 440

<210> 20063
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-D10

 <400> 20063

atcccgctgc atcccatccc actaccaccc atctcgtcgt cgcgcgattc gatccggggc 60
 ttccaaccca ggggcagtga tggcgacgaa gaggagcgtg ggcaccctcg gcgaggcgga 120
 tctgaagggg aagaaggtgt tcgtgcgcgc cgacctcaac gtcccgtcgc acgatgccca 180
 gaagatcacc gacgacaccc gcatccgcgc ctccgtcccc accatcaagt tctcctcga 240
 gaagggcgcc aaggtcatcc tcgccagcca cctgggtcgt ccaaaagggtg tcaccccaaa 300
 gtacagcttg aagcctcttg ttccacgctt gtctgagctc cttggagttg aagtcgtgat 360
 ggccaatgat tgcattggtg aag 383

<210> 20064
 <211> 301

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-F2

 <400> 20064

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 anaagttggt gtctgcattg ccaaacggta atgttgtgct ccttgaaaat gttagattct 120
 acaaggagga agagaagaat gaccagagt ttgcaaagaa gcttgcctct ttagcagatc 180
 tttatgtgaa cgatgccttt ggaactgctc acagagcaca tgcgtcaact gagggagtta 240
 ccaagttctt gaagccctca gtcgcagggt tccttttgca aaaggagctt gattaccttg 300
 t 301

<210> 20065
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-H7

 <400> 20065

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 gaggagaagg gtgtctccct tatgttgcca ttcgatctgg tcgtcgctga taagtttgct 120
 cctgatgcta gcagtcagct ctccaggttg ttctgcatc tgcaattcct gatgcatgga 180
 tgggtctgga cataggtcca gattcgattt cggcgttcag ttctgccctg gaaactactc 240
 agacagtcac ctggaatgga cccatgggag tttttgaatt tgacaagttt gcagttggaa 300
 ccaaggcaat tgcaaagaag ttagccgagc ttagtggaac gggcgtcact acaatagttg 360
 gtgggggaga ctccattgca gctgttgaac aggggtggtg cgccgactct ctgagccaca 420
 tttcaactgg gg 432

<210> 20066
 <211> 235
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-H5

<400> 20066

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tgctgcgcaa cggttgata cctgcctcg agttcagcaa ggtcggcttc gtgtaccgcy 120

agaactgcac ctacctgtgc tactacgacg gccgctactg gaccatgtgg aagctgcccc 180

tgttctgctg caacgacgcc acccacgtgt acaaggaact gcaggaggcc atcaa 235

<210> 20067

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D11

<400> 20067

cgccccaccgt gatgatggcc ttgtcggcca ccgccgtcga tccgttccag gggctcaggt 60

ccaccgccag gctccccgtt gcccggcgtt cctccagaag cctaggcaac gtcagcaacg 120

gctgaaggat ccggtacatg catgtgtgga cggcctacag caacaagaag gtcaagacgc 180

tggcgtacct gccgacgctg tcgaccgacg acctgtgaa gctggtggac tacctactgc 240

gcaacgggtg gataccctgc ctcgagttca acaaggtcgg cttcgtgtac cgcgagaact 300

ccaccttccc gtgctactac gacagccgct actggaccat gtggaatctg cccatgtcac 360

tctgcaacga cccacccag gtgtacaagg agctgcatga ggccattaaa tcctac 416

<210> 20068

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-F11

<400> 20068

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tccagggggt caaggccagg gccagcctcc cggtcgcccc gcgctcctcc agaagcctcg 120

gcaacgtcag caacggcgga aggatccggt gcatgcaggt gtggccggcc tacggcaaca 180

agaagttcga gacgctgtcg tacctgccgc cgctgtcgac ggacgacctg ctgaagcagg 240

tggactacct gctgcgcaac ggctggatac cctgcctcga gttcagcaag gtcggcttcg 300

tgtaccgcga gaactccacc tccccgtgct actacgacgg cgcctactgg accatgtgga 360
agctgcccac gtccggctgc aacgacgcca cccatgtgta caaagagctg caggaagcca 420
tcaaataccta cccggacgcc ttccaccgcg tcatcggc 458

<210> 20069
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F9

<400> 20069

tcaagcaagc aagcagcgag ttcataactta ctacgcagcc aggcagccat ggggccgagc 60
gcgatgatgg cctgggtctgc gaccgccttc gctcccatac agtgtctcac gttcaccgtc 120
agcctctccg tagccaggcg ctctccata agcctatg 158

<210> 20070
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G7

<400> 20070

ctaggcagcc aggcagccat ggcgcccacc gtgatgatgg ccttgteggc caccgccgtc 60
gctccgttcc atgggctgga gttcaccgac agtcttcccg acgaccggcg ctgctccaga 120
agcctatgta acgttagcaa cggcggaagg atccggtgca tgcaaggggtg gtcggactac 180
ggaaacacga agttctagac tctgtagtac ctggcggcga ttgcgacaga cgacctgctt 240
gagcaatgtg actaccatga tgtgcaacgg ctggataccc tggctctagt tcataccgga 300
cagatatgag taccgtgaga acttcatcta accgtgctaa ttcgaactgc gttactggac 360
catgcgaaag c 371

<210> 20071
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F12

<400> 20071

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aaaagctcca tgcacagggt gggagataca agagcccaga tgagcaccct ttctttcctg 120

aggatctgcc tgagccccgg ttgccaccta tgcagtaccc aagggttttg catcccattg 180

ccgattctat caatatcaac aaagagattt ggaaaatgta ttttgatgaa cttcttccaa 240

gattggtaaa aaaaggaagt gatggtaatg ctggatccag tgctctttgt gacacgacct 300

gcttgcaagc gctctccaaa aggatccact atgggaagtt tgtggcagag gctaagtttc 360

aggagtcccc ggaagcttac atgccagcca taatagctca agaccgtgat caactcatgc 420

accttctcac atatgaaacg gtggagcgtg cta 453

<210> 20072

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E11

<400> 20072

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cgcccgctgc tgctcaccgc ggggggtctcg cccgggggcc ggagggtacg agccgcgttg 120

ccttcggacc agcgcctaga aacaaggggc tccgcgcggc caacaactcc gcgacgcccc 180

tggctaagga agagaggggt gatcgaagtg aaatattgac attggatagc attagacaag 240

ttttgattag actagaagac agcatcatat tcggcctttt ggagagagca cagttttggt 300

acaacgctga tacatatgat agcaatgctt tccacatgga tggttttggc ggctctttgg 360

ttgaatatat ggttagagaa actgaaaagc tccatgcaca ggttgggaga tacaagagcc 420

cagatg 426

<210> 20073

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-H3

<400> 20073

acggccaggt gaaacgattg gcacgtacca tgtattcgat accccgctat tcacgggtgcc 60
aagatggttg gogaacgttg ttggtgatgc aaccatgttt ggtgaatgga aacaagagat 120
ggagctaattg gctggactga tcaagaatgt aagacaaaag ctctacgaca gtttgtctgc 180
caaggacaag agcggcaagg actggtcttt cattctgagg cagattggca tgttctccta 240
caccggcttg aacaagcgc agagtgacaa catgacggat aaatggcata tttacatgac 300
caaggatggg cggatctcgt tagctgggct gtccctggct aagtgtgatt atcttgccga 360
cgccatcatc gattccttcc ataatgtgaa ctatgctgaa gtactatagt tgaggggtcaa 420
gctattgatg ttt 433

<210> 20074
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-047-Q1-K1-H1
<400> 20074

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gcgacgcgga cacgatggcg atctgcagcg cgcacactac cacctccctg cgctccccat 120
gcacaaccgt ctggaacgca ggtctgaggc agaagcaagt catcttcgtc accagcaaca 180
ggaggagcgg cggcggcagg aggcacggag gggcaaggag cttccaggtc tcgtgctccg 240
tcgacaagcc ggtggtgatt ggcctggcgg cagactcagg gtgcggcaag agcaccttca 300
tgcgccgggt caacaacggt tttcggggcg ccgcggagcc cgccaaaggc gggaacccgg 360
acttcaacac gctcatcagt gacaccacga ca 392

<210> 20075
<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-015-Q1-K1-A11
<400> 20075

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antggctgct agccgagaca ggggatagat tgagagagag gcgcgcagat ggcgacgccg 120

tcgtcgtcgc tttgctccag cttegcctcc ctgcggaccg cctccatcgg ccacccccgt 180
 ggcacgcct cctccacgct caggaaggca ttccatgtga gggcatcagc tcgggttgac 240
 aagttctcaa agagtgcacat catcgtgtcc ccttcgattc tgtctgcaaa ctttgcaag 300
 cttggtgac aggtaaaagc tgtggagggtg gcaggatgcg actggattca tgctgatgtc 360
 atggacgggc gctttgtgcc aaacatcaca attggaccct tggtttgtga tgctctgcg 419

<210> 20076
 <211> 298
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-D12

<400> 20076

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 cgtcatggcc ccgtccgacg aggccgagct ctgccacatg gtcgccaccg ccgcggcaat 180
 cgacgaccgc ccgtcctgct tccgtaccc gagaggcaac ggcgttggcg tcccgttgcc 240
 gnccaactac aaaggcactc ccctcgaggt cgggcaaagc aggatcctgc tggagggc 298

<210> 20077
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E1

<400> 20077

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 cttgaagggt ggtgccaaga aggttgtcat ctctgtcct agcaaggatg ccccatggt 180
 tgctgttgggt gtcaacgaga aggagtacaa gtctgacatt aacattgtgt ccaatgctat 240
 ctgcacaac 249

<210> 20078

<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A8

<400> 20078

ataaatgtgg atggcgcggtg cctctgggtc gccaggttca tgctgagtct ggacatgttt 60
tgcacttttg tttcccttcc tgctaccatc tgtgacagat ccgctcgct 109

<210> 20079
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F7

<400> 20079

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tcggtgacaa gccggtcacc gtctttggca tcaggaaccc tgaggaaatc ccgtgggggtg 120
aggctggcgc tgagtatgtc gtggagtcca ccggcgtctt cactgacaag gacaaggctg 180
ctgcacatct caagggtggt gccaagaagg ttgttatctc tgccccaagc aaagatgcac 240
ccatgtttgt tgggtggtgtc aatgaaggca aggtccactt ggatggtaac catggtttca 300
attgttagtt gaacaaaaaa tggcttggtt cccttggtaa aggcattcat gaccaccttg 360
gcattggtga agggttgaag accac 385

<210> 20080
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B9

<400> 20080

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agagcgagga tgctgagctc gtcgccgtca acgaccctt catcaccacg gactacatga 180
cctacatggt caagtacgac accgtccacg gccactggaa gcacagcgac atcacactca 240

aggactccaa gacccttctc ttcggtgaca agccggtcac cgtctttggc atcaggaacc 300
 ctgaggaaat cccgtggcgt gaggtggcg ctgagtatgt cgtggagtcc accggcgtct 360
 tcaactgacaa ggacaaggct gctgcacatc tcaaggggtg tg 402

<210> 20081
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-B9

<400> 20081

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 cgtggccagc gtcgccctcc agagcgagga tgctgagctc gtcaccgtca acgaccctt 180
 catcaccacc gactacatga cctacatgtt caagtacgac accgtccacg ggcactggaa 240
 gcacagcgac atcacactca aggactccaa gacccttctc ttcggtgaca agccggtcac 300
 cgtctttggc atcaagaacc ctgaggaaat cccgtcgcgt gaggtggcg ctgactatgt 360
 cacggagtcc accggcgtct atactgacaa ggacaaagct gctgcaca 408

<210> 20082
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B6

<400> 20082

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 ccctccagag cgaggatgtc gagctcgtcg ccgtcaacga ccccttcac accacggact 180
 acatgaccta catgttcaag tacgacaccg tccacggcca ctggaagcac agcgacatca 240
 cactcaagga ctccaagacc cttctcttcg gtgacaagcc ggtcaccgtc tttggcatca 300
 ggaaccctga ggaaatcccg tggggtgagg ctggcgctga gtatgtcgtg gagtccaccg 360
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<210> 20083
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-C5

 <400> 20083

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 ccaggggtcg cctccagagc gaggatgtcg agctcgtcgc cgtcaacgac cccttcatca 180
 ccacgggacta catgacctac atgttcaagt acgacaccgt ccacggccac tggaagcaca 240
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 ttggcatcag gaacctgag gaaatcccgt ggggtgaggc tggcgctgag tatgtcgtgg 360
 agtccaccgg cgtcttcaact gacaaggaca aggctgctgc acatctcaag ggtggtgcc 420
 ag 422

<210> 20084
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-056-Q1-K1-C9

 <400> 20084

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 taaagtggat attgttgcca tcaatgacc cttcattgac ctcaactaca tggtttacat 180
 gttccaatat gattccacc atggcaaatt ccatggcacc gtcaaggctg agaacgggaa 240
 gcttgatc attggaatc ccattccat cttccaggag cgagatccct ccaaaatcaa 300
 gtggggcgat gctggcgctg agtacgtcgt ggagtccact gggtcttca ccaccatgga 360
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<210> 20085
 <211> 383
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-D3

<400> 20085

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gcaagaccta aaggaggaat atcatgttcc tatacttggc gagtacccta aatggattgc 120

aacttttaag aaatgggctg atctggagag ttggttaattg caattctatc aatatttggga 180

aggatccatg gacccacgt ggagaaacca ggaagataat tactccatcc aaggggtcaa 240

tccgtcatcc aaagagttta tgaactgata aatccattta agggcttgtt cgggtagctc 300

tcaatccata tggattgagt gagatttggg ggggttaaaa tcccagcatg gacaaaaggc 360

acacacgtgg tccagctttc tac 383

<210> 20086

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-F4

<400> 20086

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cgaagtatta ctatgtgac ctaaagttat tagtgggttg tctcagcaa tttaggtgcc 120

gtttggttca aattttggta acgtaatggg taactcataa cattaaatca tgtttgttta 180

agtttaactg taatcgatac cacactacaa atggatagtc ttattcaaatt ttgttactgc 240

cggatttcga gtgtgaatcg ttaccattac catttacgtt acatttcgtg aaccaaacgg 300

caccttactt ttttatagac tatgtctcca ttgttttcat tcactttcac tgacacataa 360

gttccttata acttatcagc tggcagtact tctgtcttct cgccatctat gtcagtc 417

<210> 20087

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-C1

<400> 20087

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 ggttgagaaa actaagtagc ctaactccga cctctactgg aagaagtttg aggatcacta 120
 ccactttctcg tgccagttca ccactgactt gattgcaatg aaccatgccg acttcatcat 180
 caccagtacc ttccaagaga tcgccggaaa caaggacacc gtccgccaat acgagtcaca 240
 catggcgttc acaatg 256

<210> 20088
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C3

<400> 20088

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 gacgtggcgc atgagattgc tggagagctt caagccaatc ctgacctgat catcggaaac 120
 tacagtgcgc gaaaccttgt tgcgtgtttg ctgcccaca agatgggtgt tactcactgt 180
 accattgccc atgcgcttga aaaactaa 208

<210> 20089
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-G11

<400> 20089

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 cttttgtagg tattgccgaa caaatttgac attgatgcag gggtttgaga aaatgggtctc 180
 tgggatttat cttggggaaa ttgcaaggct ggtgctgcat cgaatggctc tagaatcaga 240
 tttttttggt gacgctgctg ataattctatg taccctcttc acattgagca caccactcct 300
 cgctgcaatt cgcaaggacg attcaccaga tctgagcgaa gtcaggaaga tactgcaaga 360
 acatctgaag gtcagctttc ctgaccttca tgaagtcaaa catgtgtttt cctccaacct 420
 gtgaagggtc tgggtatttt gc 442

<210> 20090
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-H11

 <400> 20090

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 cgccatgtgc accaccaaga agggcgccat cccggcgctg cccacggctg ccaccgcca 120
 ggacctcatc gccaaaggcca actagatggc cgcacgcccc gccgttcac cacgtcactg 180
 tccccgcgag ccccgccccct cgtcgtcgac gtctctcggt tcggttcatt aggtagatcg 240
 agtcttaccg tcc 253

<210> 20091
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-B7

 <400> 20091

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 ccgaaagagg actttggagg tggatcatcc gatcctaacc ttacctatgc aaaagagttg 120
 gttgaacgca tgggtcttgg aaagtcattc tcaaatgttg agcctcctga atttgggtgct 180
 gcagctgatg gagatgctga ccgcaacatg attcttggta aaagattctt tgtgacaccg 240
 tcggactctg ttgccattat cgtaaccaat ggctgtcaat caattcctta ctt 293

<210> 20092
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-044-Q1-K1-F2

 <400> 20092

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 tgatctttac accgtgggtg atggctttgt catccgcaac ccatgcagag cgaatccagc 120

taacccttca attgagcttg gacctgagtt caagaagggt gccaatctac ttggctcggtt 180
 caagtccatc cccagcatag ttgagcttga cagcttgaag gtttctgggtg atgtctgggtt 240
 tggctctgga attacactca agggcaagggt gacaattatc gccaaagcctg tagtgaagtt 300
 ggagattcca gatggagacg tacttgagaa caaggatgtc aatggtcctg aggatctata 360
 agcaatgggt atcatcacca ggttttccaa ggacatgtta cagggact 408

<210> 20093
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-F10

<400> 20093

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 gcagtctgat ctttacacct tggttgatgg ctttgtcatc cgcaatccat ccagagcgaa 120
 tccagctaac ccttcgattg agcttggacc tgagttcaag aagggttgcca atttccttgc 180
 tcggttcaag tccatcccca gcatcgtcga gcttgacagc ttgaagggtt ctggtgatgt 240
 ctggtttggt tctggaatta cgctcaaggg caaggtgaca atcaccgtca agtctggagt 300
 gaagttggag gttccagatg gagctgtatt tgaaaacaag gatgtcaatg gccctgagga 360
 tccttaagct atg 373

<210> 20094
 <211> 342
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-A8

<400> 20094

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 cgaaccgaga acacggagca caagttcggt ctgaacgaca ggaacaagcc aatcatcttc 120
 tccatggctc gtctcgaccg tgtgaagaac ttgactgggc tggaggagct gtacggccgg 180
 aacaagcggc tgcaggagct ggtgaacctc gtggtcgtct gcggcgacca tggcaaccct 240
 tccaaggaca aggaggagca ggccgagttc aagaagatgt ttgacctcat cgagcagtac 300

aacctgaacg ggcacatnecg ctggatctcc gnccagatga ac

342

<210> 20095

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-E6

<400> 20095

aatggaatta aagggtccccg gttaagaatt cttcccgatga atgcttcctt cgaattaatg 60

<210> 20096

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-F11

<400> 20096

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gtgggggatcc caccaggggc cttttctatg attgttcggc ccacatgttg tgggttggtg 120

agcgcaactcg acaactcgat ggagctcatg ttgaattcct ccgtgggtgtt gccaaccccta 180

tgggcataaa ggtgagcgac aaaatgaacc ccagtgaatt ggtgaagctg attgatattc 240

tgaacccttc aaacaaacct ggaaggatca ccataattac aaggatgggg gcagagaaca 300

tgagggtgaa gttgcctcat ctcacccgtg ctgttcgcaa tgctggactg attgtcacat 360

ggattactga tcctatgcat ggaaacacca tcaaggcccc ttgtggcctg aagactcgtc 420

catttgactc cattctggct gaagtgcg 448

<210> 20097

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-008-Q1-K1-A5

<400> 20097

ctgaaccctt caaacaacc tggaaggatc accataatta caaggatggg ggcagagaac 60

atgagagtga agttgcctca tcttatccgt gctgttcgca atgctggatt aattgtcaca 120
 tggattactg atcctatgca tggaaacacc atcaaggccc cttgtggcct gaagactcgt 180
 ncatttgact caattctggc tgaagtgcgc gcattcttcg atgtgcatga tcaagaaaga 240
 agtcacccca gaggcaccca ccttgaaatg actgngcaga acgtgaccga gtgcattggt 300
 ggatcacgga ctgtgacctt cgatgacctg acgaccgcta ccacaccacac tgtgacccaa 360
 ggctgaacgc c 371

<210> 20098

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D6

<400> 20098

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 catgggtgca actgggctga caatggacca gcctttgacg acgatgatcg agtttctgga 120
 cctaacaatga gtgcttcctc ctaccttaca agcaagcctt aaccggcag gattccacca 180
 ccggcctttc tataaatggt tcggccacat actcttggtt cggagagcga caccgaact 240
 tgaatggccc atatgtagag tctctgaggg agatcgcaaa ccctcttggt atcaagggtga 300
 gccacaatat ggagcccga gagctggaaa atctgatcga catactgaac ccgacgaaca 360
 agcccgagag gatcacgcgc atcacagga tgggcgcaga gcacatcagg gtcaagttac 420
 ctcaccttat ccgcgcggt 439

<210> 20099

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D2

<400> 20099

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 agaactccaa attaagaaga tcatgcacaa cctgcggcag taccagggtcc ctttgcagcg 120
 ctatatggcc atgatggacc ttcaggagaa gaacgagagg cttttctaca agcttttaaat 180

tgataacgtg gaagaact

198

<210> 20100
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-026-Q1-K1-C8

<400> 20100

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agaactccaa attaagaaga tcatgcacaa cctgcggcag taccagggtcc ctttgcagcg 120
ctatatggcc atgatggacc ttcaggagag gaacgagagg cttttctaca agcttttaat 180
tgataacgtg gaggagctgc ttcctgtggt ttatacacca actgtagggtg aggcctgcc 240
gaagtatggg tccatctttc gacaaccaca gggctctgat gtcagcttga gggacaaggg 300
gaaggtccta gaagttctaa ggaactggcc acataggaac attcaagtta tctgtgttac 360
tgatggtgag cgaatcttgg gactnggaga tttgggttct tagggaatg 409

<210> 20101
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-D1

<400> 20101

acggtggagg ctggaactgg tattgcagaa ctcatgtctc ttgagatttc aaaacagacg 60
tcgggtccga ttgaagagtg cgcgaagaag atttggttgg tggactcaaa gggtttgatt 120
gttgactctc gtaaaaactc cgttcagtca ttcaaaaaac cttgggcaca tgagcatgag 180
cccttgacaa ccttgtacga tgctgttcag tccatcaaac ctacagttct gattgggacg 240
tctggagttg gaagaacatt cacaaaagaa gttgttgagg ccatggcttc cttcaatgag 300
aggcctatca tcttttctact gtcaaatcca acctttcatt ctgaatgtac t 351

<210> 20102
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A12

<400> 20102

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atttataagc gcaagaaagg ttatgttcga catgggtcca ccaataagca gtgagcttca 120
ggttgtttct ttccacactg tgtcgaaagg gtactgggga gagtgcggac aacgtggtgg 180
atacttcgaa atgacaaatc ttcctcccaa gacagtagat gagatctaca aggttgcata 240
gatagcactg agtccaaacg ttcctgggca aatttttatg ggagtaatgg ttaaccctcc 300
taaacctgga gatatctcgt acctgaagtt cgctgctgaa agcaagtcca tccatgaatc 360
tttgaggagg agagcacgca tgatgacaga tggtttcaac agttgccgaa acgtcgtgtg 420
c 421

<210> 20103

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G2

<400> 20103

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gttgctgcac ttcagtctct ctcgggcact ggatcactgc gtctcgtgc agcattcata 120
caaagatact ttcctgaagc taaagtgtg atatcgtcgc ctacctgggg taaccacaag 180
aatatcttca atgatgctag ggtaccttg tcaagatacc ggtattatga cccaagact 240
gttgggttgg attttgaggg aatgatagct gacattgaag ctgctcctga aggttctttt 300
gttctgctac atggttgtgc tcacaacca actggaatag acccaactcc tgaacagtgg 360
gagaaaattg cagatgtcat tcaagagaaa aagcatatgc cattctttga t 411

<210> 20104

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-D4

<400> 20104

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aggactggcc agggggtgcc tgcattaact atgactgtag tccgatgaat gcgtctgaag 120
aagcgcacaa tcttgagacc tgcagctgg tctgggagaa gacactggag atggtcggcc 180
ttccgccgga tgccctggag aagctcatcg ccggagaatc agttcagtgc cgttacggac 240
aacaggatac aacttttttag ttagcagttt agaggtgggt tggttcggtt ttatgtcatt 300
ttgatcctaa atttgcaggg aggaaaacac agggaaagga gaaaaagaat ttgttgacag 360
ctaccaatc ttggctcttt tct 383

<210> 20105
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-053-Q1-K1-D9
<400> 20105

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tcgtgccgt ccacctccct ctcccgccg aggtccgccc gcgccgggcc cagacgcagg 120
cagctcacgg ccgtccgctg cagcgccgct ggagaggcgg tagtgaggga ggccctcgccc 180
gggacggcgg aagagccgct gctggtgagc gcaatcagag ggaggaaggt cgagaggcca 240
cccgtctggc tcatgaggca ggccgggagg tacatgaaga gctaccaatt gctctgcgag 300
cggatcctt cgttccgtga aagatcagaa aatgtcgacc tagttgttga gatctctttg 360
caaccatgga aggttttcaa gcctgatgga gtcattctgt tctcggaca 409

<210> 20106
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-056-Q1-K1-D10
<400> 20106

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ctaaggatgg gcattttgcc ctggaggagc tggcccaagc tggctatgag gtggttgggc 120
ttgactggac agtggcccca aagaaagccc gggagtgtgt ggggaagacg gtgacattgc 180

aggggcaacct ggacccctgt gccttgtatg catctgagga ggagatcggg cagttggtga 240
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 atcctgacat ggacccagaa catgtgggcg cctttgtgga tgctgtgcat aaacactcac 360
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<210> 20107
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-F6

<400> 20107

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 ttccaaatcg tgctcctgac ggtaggggtgt tacttctaaa ctacatagga ggtgctacaa 180
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 cacaagccat acctcagttc ctggtaggac atcttgatct tctggaagcc gcaaaagctg 360
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 ccc 423

<210> 20108
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A9

<400> 20108

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 aagcctgcat aaaccgaag gattggatct gattagccgt tattcttgag atcttttggt 180
 agagttttcc cttctgtagg gctaagacca cgtgcagttt cattatatat tttgcatctg 240
 tagaatcgtg aataaatatg atgtagtaat gctgtagctg tctgtatcta tctgctgttt 300

tttcccccattg tgaatgagag aaccattggc ttctgtatta cgaaggattc aggtttct 358

<210> 20109

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-B9

<400> 20109

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attcttcgcc gcggggatta gttegggtgct tcacccaag aaccatttg ctccaacatt 120

gcattttaac taccgttact ttgagacgga tgcacaaaa gatgcacctg gtgcaccaag 180

acaatggtgg ttccggcgggtg gtactgactt gactccttca tatatcattg aagaggatgt 240

gaagcatttc cattctgttc aaaagcaagc atgtgataaa tttgatcaa gttttcaccc 300

aagattcaaa aaatggtgtg atgattattt ctatattaag caccgtaatg agcggcgtgg 360

gctaggtgga atattttttg atgaccttaa tgattacgat caagaaatgc ttctcaactt 420

tgctacagaa 430

<210> 20110

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B3

<400> 20110

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cgaacagagg caccaccag catggccctg caggcggcgc tcctcccatc caccctctca 120

tccgtcccca agaagtgcag cctcgccgtc gcggcgaagg acacggcatt ccttagcgta 180

tcccagaaga aggtgcaggc ggcgtcgtc tcggtgagaa cgcgggtggc gacgacggcg 240

cctgtggcca cgcgggggtc cagcacggcg gccaaaggatg ggaagaagac cgtgcggcag 300

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gcggagaccg gcaagtggca cgtggtgatg gcctgc 396

<210> 20111
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-C4

 <400> 20111

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 ctgcctccc tggacagcgt cggccagttc gtcaagaacg tgcgccagct ggagatgccc 240
 atcgacgtgg tggctctgaa cgccgtcgtg taccagccca ccgccaagga gccgtcctac 300
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<210> 20112
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-E9

 <400> 20112

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 gagcttcgac ggcgccaagg cgtacaagga cagcaagatc tgcaacatgc taacaatgca 180
 ggagctgcac cggcgggtacc acgaggagac gggcatcacg ttcgcgtcgc tctaccgggg 240
 gtgcatcgcc accacggggc tgttcgcga gcacatcccg ctgttcgggc tgctcttccc 300
 gccgttccag aagtctgtca ccaaaggctt cgtgtcggaa gcggagtccg gcaagaagct 360
 ggcgcattgtg gtcagcgacc ccagcctcac caagtcggng gtgtactgga gctggaacaa 420
 ggactccgcg tcgttcgaga ac 442

<210> 20113
 <211> 277
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-G7
 <400> 20113
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 gcgtacaagg acagcaagat ctgcaacatg ctaacaatgc aggagctgca ccggcggtac 180
 cacgaggaga cgggcatcac gttcgcgtcg ctctacccgg ggtgcatcgc caccacgggg 240
 ctgttccgag agcacatccc gctgttccgg ctgctct 277

<210> 20114
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A4
 <400> 20114
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 ggtttctgct cagaatgtgt ggattggaaa aggaggagcc tacaccggag agatcagtgc 120
 agaacaactg gtggacatcg gctgtcaatg gggtattctt ggacactctg agcgtagaca 180
 tattattggt gaaaatgatg agtttattgg aaagaaggct gcatatgcat tgagccaaaa 240
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 tgatgtatgt tttaagcaga tgaaggcttt tgcagatagt atttcaaact gggcagatgt 360
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 aaccaaga 429

<210> 20115
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H5
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agttcaagga gatagttgtg gaccaggtcg gggatcgcgc taccagctac gatgacttca 120
 caaacagcct ccctgagaat gactgccgat acgcgatcta tgatttcgac tttgttactg 180
 cagaggatgt ccagaagagc aggatcttct atatcctatg gtcccatcc ttcgtcaagg 240
 tgaagagcaa gatgctttac gcaagctcaa accagaaatt caagagtggc ctcaatggca 300
 ttcaggttga actccaggcc acagatgcga gtgaaatcag cctcgatgag atcaaggatc 360
 ggtcacgcta ggcgaccgt catcgcgagt ttcatgatca cgcacatgg actcgcctac 420
 tactgtggat ttgtatgcca ttata 445

<210> 20116

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H6

<400> 20116

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 cccaatctg gatactctgg gaattatatg aacaaaaca cacatcctgg atactcccat 180
 attggtacat caaatgacat tgtatctcag gatcacatgg cccatggatc tcaqggaatg 240
 ttactcaag tggggtataa tgatccgtcg caagatgagt catctcagat tcattatgga 300
 atggtctgtg ctgggtccct acattcgcag agcatgatga accccttata ctctcaatcc 360
 tatgtcact acaacacca gccacattct ctcc 394

<210> 20117

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H7

<400> 20117

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 ctggaccaca ctacaatcct gcgagcaagg agcatggggc accagaagat gagaaccgcc 120
 atgctggtga tcttggaac gtgtcagctg gagcagatgg tgttgcta atcaatgtca 180

ccgacagcca gatccactg actgggcca actcaatcat tggcagagct gttgttggtc 240
acgctgatcc tgatgatctt ggaaaggtg ggcacgagct cagcaagagc actggaaacg 300
ccggtggccg tgttgcttgt gggatcattg gactccaggg ctgaaaacga tcgccggact 360
tgggggtgcc tgagaggtcc gtctcctgcc gtaccagca gactagcctg aacattcgga 420
gacatcgt 428

<210> 20118
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H8

<400> 20118

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gctcaatatt gttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa acaaaaacta acaaaaaaaa aaaaaataa caaaacgggg 240
gggtctattaa aaagatccaa attatccttc aaagtattgc cactaactca tctatatcaa 300
tggacaccaa aattaaccaa atggcccgct t 331

<210> 20119
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H9

<400> 20119

gggtgtgcaa tcgcggcagt cgcagttcct gagcaacggc gatccgggga cctcgggagg 60
cctgtccctc gcgatcggcg gcacggtcgt tggtcactgg actaacaagc tgcaacacct 120
gaagcagcat atgctgc 137

<210> 20120
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H2

<400> 20120

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gagagggtcaa ctcaagctca tgcaggcaga tcacaatctg gagataacga ggggtactct 120
acctccaact taggactggg atgcatacat gtcgaactta tcatgctctt tgacagagac 180
gtgctactac ctgaccgtct atggcaacta gtcatgcaat ctccatccac catactgcga 240
gaccttatta caccgcgccca cctggcgcg ctcacaacgcg cgcctaattgg tggacttcat 300
cgcggaacaca ctcggccttc cgttcgtgcg accgtatctg agctgacgga tcgcggatga 360
cttgcccggc tgatccaac 379

<210> 20121

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F2

<400> 20121

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agggtcaatgg tgggtaccatt gcgtgactag gtggactatg gctacaaatt ctttgagaaa 120
gagggtccctg ttgatgctgt cttacagaag gatgagatga ttgacatcat tgggtgtgacc 180
aaggggtaag gttatgaggg tgtatccact agtcgtggtt taacagggct tacgtgagag 240
tccctctatg ggctacgtat agtctggtgt acatgcgcac gtgtttctac gagctcctgg 300
actctagtct gcagtgaag tttgcttgag ttgagacgca tatcatggag gaactgggtc 360
g 361

<210> 20122

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F6

<400> 20122

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caataccacc aggacggttt catctatctg ttggagatcc tttccatcca cttctcctac 120
tatacttacc tcgttcagca caacacctac gtgtgttctt atacacgcct atcctcatta 180
cacgttcata cgttctcacc acgcaattta cccacatcta taatctcatg tacgccatga 240
actatgaccc ttatcttcat gaacctatac aactcttcca cattccccta cacccttact 300
ttccccaaca ccttcgacat ctgccatata acctacatca cc 342

<210> 20123
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F8

<400> 20123

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gcctccacta tccttcgcaa agttccctct cagctcttgt ccgaatctca ctctagccct 120
aaccaaatcc catacccatc ccagccctat ccacaccaac cagctcgcca gctaccattt 180
ttaaccgta caatctgatt atatcatata ttctacctca attacacctt tc 232

<210> 20124
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F9

<400> 20124

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cttgactggg ctggtggagc tgtacggcgg gaacaagcgg ctgcaggagc tggatgaacct 120
cgtggtcgtc tgcggcgacc atggcaacct ttccaaggac aaggaggagc aggccgagtt 180
caagaagatg tttgacctca tcgagcagta caacctgaac gggcacatcc gctggatctc 240
cgcccagatg aaccgcgtcc gcaacggcga gctgtaccgc tacatctgcg acaccaaggg 300
cgccttcgtg cagcctgctt tctacgaggc ttccgggctg acggtggttg aggccatgac 360
ctgcggcctg cccacgtttg ccacagccta cggcgggtccg gccgagatca tcgtgcac 418

<210> 20125

<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-G1

<400> 20125

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gcgacgccat cccacgagc gccttctccg acgccgtctc cgctccgccg cattctccga 120
cgccgtctcc gctccgccgt cttctccgac gtcgtcacct tcccctcgac aagatatggg 180
ttcttgggag gagaaagtta gacaattttt gttagatgag gaagaagacg acgatgagtt 240
gttctttgtt attctccctg ctataattcc atacctctca gaagagaaag agcccatcca 300
cacctactca ctcaactggtg ctaaaaagct tcctagctct atccaaactc ataccaaaat 360
tgcaacagat tataggttca tgccattgtt tcagaactgc attggtgccca tcgacggcac 420
acatatacc atcaccatag cataacat 448

<210> 20126
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-G10

<400> 20126

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tggtcctggt gcgatgctca tcttccctcg cccaagaagg cggtctctcc gacatgccgc 180
cgtgcaacaa gctggagttg atactggcgg ggc 213

<210> 20127
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-G11

<400> 20127

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gcgcccttcag ggtctaaggg aaagggttttc acattgtaac tcaaacatgg acgcaggcca 120
 gtgtttcttt ccacgtgaag ttgtgaagca cattgtcaac ccagttttcg ttcttaatcc 180
 agcatatgat gcctggcatg tacaacatgc gttgggtcca gaagcatctg accctcaaca 240
 ttcattggctg gactgcagat tggatattag caagtgcagc cctaaacaac ttggaattct 300
 tcaaggttca ggaaagaact gcatgacgct ataagttaa 339

<210> 20128
 <211> 451
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-059-Q1-K1-G12

<400> 20128

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 aagccgccgc cgctgcagtg tccatagcca ccggaggaga ctgagatggg ggggtttgtc 120
 aagaccacac agagcaatgc gtacttgaag cgtttccagg tgaagttcaa gagaaggcgc 180
 gctggcaaga cagactacag ggccaggata aggctgatta accaagacat aaacaagtac 240
 aatacaccca aatacagatt tgttgtgcga tttaccaaca aggacatcac agcacaaatc 300
 atctctgcta gtatagcang tgatatgggt cttgcttctg cttactcgca tgagttgcc 360
 cgatatgggc ttgaagttgg tctgaccaac tatgcagctg cctactgcac tggccttctg 420
 ttggctcgcc gtgtgctcaa gaccgtgggt t 451

<210> 20129
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-G3

<400> 20129

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 caaatgctta attggcgggt gataaaaggc ggcctacctc cgtaaatctg caagccagcc 120
 ttaccaccac ttccaattcc aaaacaacca agcaaaacgc taccacacca accaggctaa 180
 caccagcagc aaaaaacccg cgctaatact aggccataac tactggtaat tccccagatc 240

caaagcgaga tgcaccattc ataaaaccat ggcgctctc ggcaagctcc gaggtaggggt 300
 ggacgactct accacgacca acggaaaact actacttggt gcaccgcgcc gacgacggac 360
 gagacgacgc tgcgggaacc atggaggggt ttcagttgaa ctgggccccg c 411

<210> 20130
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-059-Q1-K1-G4
 <400> 20130

acagcatcta atcaatcaag acagccccgt gctagctcac ccgccggggc tcgccacgat 60
 gagaggcctc ctgcgtgcg ccaccctcgc ccgccgcgcc gccgcctcct ccgcgccccg 120
 gcgcgtccgc cacctggcgg gcgccgcgga ggcggcggag gccgagctca agaggacggc 180
 gctctacgac ttccacgtcg cccacggcgg caagatgggt ccgttcgccg gctggagcat 240
 gcccatccag tacagggaact ccatcatgga ctccaccgtc aactgccgcg ccaacggcag 300
 cctcttcgac gtgcgccaca tgtgcggcct cagcctcaag ggccgcgggt ccatccccctt 360
 cctcgagtcc ctgcgtcgtcg ccgacgtcg 389

<210> 20131
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-059-Q1-K1-G5
 <400> 20131

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 atctatctta aaatagctct ctaagctaca ggtggacgaa gaacctggta tcaggacaaa 120
 caccacaatt cttcttgga atattgcagg ctacatgaac gatgggacaa ggaagagagt 180
 gctgatcaat gcattcacag ttcgtgcatt acgtgatacc ttccctccgg ccagagcagc 240
 tggaatcatg gactaagtg tcactagttc atactatgaa atgacagaga ttgcaactcg 300
 cattctgcct aacatcggtg agtcacatt tgaccacat agtgatgtcc gaaccaaggc 360
 atttcaggct accgatcagg tcttgcaaat tgca 394

<210> 20132
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-059-Q1-K1-G6

<400> 20132

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 gatcaaggaa taccgtggca agattgaggc tgaattgagc aacatttgtg atggatcct 180
 aaagctgctt gacacgcacc ttgtgccttc ctncactgcc acagagtcga aagtgtttta 240
 cctcaagatg aanggtgatt atcacaggta ccttgctgag ttaagactg gtgctgagag 300
 gaaggaatct gcagagagca caatggtagc ttataaggca gctcangata ttgcattggc 360
 tgaactgcca cctattcatc ccataaggct gggactngca cttacttct cagttttcta 420
 ttacgaggat cagaactctc caa 443

<210> 20133
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-G7

<400> 20133

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 atacattcgt cagcctttcc tgaaggagga ctatctcttc tagttggctg caacagtagt 120
 tgtgctacaa ttaggaacat tttccccagc atcaggatta cattcgcacg atttcaactt 180
 cattgactat ctttcgtgca cgtgcaacta cgctgttggga tatggaaact gttcattcaa 240
 gctctcgtca acatacggag ataccttata tcaccatgcc accggactct cacactaact 300
 tcgcctagtt acagactgta tctcagacac ac 332

<210> 20134
 <211> 169
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-G8

<400> 20134

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gccccccgaa tctggatgcgg ccgccggagc gcggaacccc accccggccg ccatggaaaa 120

gggagggatg agcgacgctg aacggctggt cttcttcgag atggcctgc 169

<210> 20135

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-G9

<400> 20135

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agcttaatgt gctggctgta tcctgctaaa tga 93

<210> 20136

<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-059-Q1-K1-H1

<400> 20136

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gccagcggcg ggttgctatc cgtgcgtgtt caacttcggg gactctctgg cggacacggg 180

caactacccg ttctgtctatg gcaacggctc atccaagctc cgtccaccat acggcgagac 240

cttcttccac cgcgccacct ggcgcgcctn caacgggcgc ctagtggtgg acttcatcgc 300

ggacacactc ggccttcctg tcgtgcgacc gtatctgagc ggacggatcg cggatgac 358

<210> 20137

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H11

<400> 20137

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 tgacaacccg tacgccaaag tctccaatct cgtatacttt cgtgctcagc atcatggacg 120
 gcttccccc aa gagcgtcggc ggtggcgggc ctaacattcc ggcgggatcc caccgccag 180
 gcggggagcca ggcgggcgga ggaggaggcg cgacgcagcg gacgcagtat ccgtatgtga 240
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 gagcctctta tggatcaact ttgagataca agagtgtgga acgcattaag gcagttggca 360
 agcatagcat cattggagca agcggagagt tcagtgcact 399

<210> 20138

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H12

<400> 20138

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 tatcaacaaa gagatttgga aaatgtattt tgatgaactt cttccaagat tggtgaaaaa 180
 aggaagtgat ggtaatgctg gatccagtgc tctttgtgac acgacctgct tgcaggcgct 240
 ctccaaaagg atccactatg ggaagtttgt ggcagaagct aagtttcagg agtccccgga 300
 agcttacatg ccatccataa tagctcaaga ccgtgatcaa ctcatgcacc ttctcacata 360
 tgaaacggtg gaacgtgcta tcgaacacag ggtggaaacc aa 402

<210> 20139

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-D6

<400> 20139

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ctttttccca gaccggttct cttattcaca cagggtggctc attcaccaac cattaacaaa 120
catcattcag tgatcctctc cttcttattc taacttaccc tatcactaat catcatacca 180
ttaaatattc taaacttaca aacattccca ccatcgctt cttagatact cactactcta 240
ttccctatgc atacatgctc a 261

<210> 20140

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-D7

<400> 20140

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ttaattatct agctgtgtca tgttgatgg ttgtatgatt atgatttatt ctgaatcctg 120
agtacctgga tcgcagttcc aaaactatct agatttagag gtacattgcc agggaaaactt 180
gtgacctgtt tgacaaataa tcatcatgtg tgattataat tgtgtgtgtt cacaccatga 240
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tggaattttt ttgtgggtgt gtttccctgg cgtatagctt ttctttctgt aggcaccttt 360
ttggatgcct gttcttcaaa gatgggtgta agacatgaca acattatgta cctatgtagt 420
gctagactca tactcag 437

<210> 20141

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-D9

<400> 20141

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atatggccgc cctcaagatg aatatcgta acccacacgg catctacgac gcgctcggtg 180
cgtgaaccgc aagaccaa atgtcccaaca cgacattcag ctaacgagcc atggacat 238

<210> 20142
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-E10

 <400> 20142

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 agaaacctaa gagacaacgt ggaaagtttg caaatcccaa agttgaatca tccaagggca 120
 ttcaaagacc ccgccgaggt cttggctcta ttcgagatat gttactggat tctgaatcat 180
 atgaaagtgg ggttcggatt ggtactaagt ttcaagcaga agttccaaaa tggctctggtc 240
 ctattttctag tagagaagat gagtttgctg agcccactga acttgatcgt agtaaaacga 300
 caatgctgag tttcgaggat aagaaaacca gtatcggtaa ctggatccag tgccgggaag 360
 ttctagacac aagaattggt tgtggcaaat tggcggaggc a 401

<210> 20143
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-E11

 <400> 20143

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 agactccttg ttgccttca tggatgtagt ggtaggtgag cgcttggatc gacgagaagg 120
 tcaactgaag aagaggagga ggaggagag gatctgattg acgttctcct ccggagccac 180
 aaggaaggaa acctcccgtt ccctctcacc atgaggacaa tcgaagcggg catatttgat 240
 ctgatcggag ggggtatcga gacagcaaca acaacgctgc agtgggagat ggctgagctg 300
 atgaggaatc caggcatcat ggccaaggca caggccgagg tcaggggatt gttcatgggc 360
 caaaccaagg taaccgaaga ccggctaggt gagctaccct acctgca 407

<210> 20144
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3062-059-Q1-K1-E12

<400> 20144

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atcaatgact ttgatgtcac tatggtgttt cctgaacctt ggtgcatgcc tcgcctcttc 120
actgccgata ttgctgcttt ctatgaggct tactatacta acaaagggtgt aaagatcttg 180
aagggcacac tagctgttgg ttttgatgct gatgccaatg gtgatgtcac tgcagttaag 240
ctaaaggatg gcacagtact tgaagccgat attgttgttg tcggtgttgg aggcagacca 300
ttgactactc tcttcaaggg tcaagttgct gaagagaagg gtggaatcaa gactgacgct 360
tnctttgaaa caagcgtacc tggagtatat gccattggtg atgt 404

<210> 20145

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E2

<400> 20145

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agaaggctgt gcgaaggga agaagagact gtgggagagg agggcgacat ggagaggccg 120
gcaccggtga ggaagtctca cacgtcgacg gcggacctgc tgatctggcc ggagggggcg 180
ccgcaggagt cggccgcccgg ggccacgccg tcatccaacc gtcggccgca tcagccgtcg 240
gaggcgctca ggaagggtgt gttcggcggg caggtgacgg aggaggaggc cgagagcctc 300
aacaagagga aaccatgctc tgctcccaag tggaaggaga tgacaggaag cggcatatct 360
gctgctgggg gcgaggctga agaagatgaa tc 392

<210> 20146

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E3

<400> 20146

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gacaggggtt caggacctcc tgctgggaag ccatctgttt gataggttgt cttgactgct 120
acaacgcaga gaggttgaaa agaaccacgt gaggtcctag accgtctctc tggatgatgaa 180
attggcctgc actggacgag agccatacgt tcataggctc ctggagctta atactcgtca 240
cgagcctatt gacattct 258

<210> 20147
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E4

<400> 20147

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gcgctcatgc tcgggctcgg gctctcagcg acggcgtcag cggcttcccc tcccgctct 120
cgctagtcga ctgcgcacct cgcattcggt cctccgcaca ccggccggtg accctgcgtt 180
tcgttcttgt taactattca agaagtagga aatgatgagc aactccaag ccactacttg 240
caagcctcac agtaggatca ttgtgaagaa acctatagca agtcttgga gacatgtca 300
gtatccatta tattcacatg ctctcggatt ccacacgttg caagagaagg tgtaccaag 360
gctagttctc atttctgcta gccacaaaag gctttactct gtatgtgcct taagtggaaa 420
gggaagctct ggcactgct 439

<210> 20148
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-059-Q1-K1-E5

<400> 20148

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ggccgctcgc tctgtctcct ccagccgca gctggtcgcg gcggcgcgcg tctgggcagc 120
ggcgctgctg ctgctggcgg cggggggcgg gacggcgctc gcggcggtga gctgcggcga 180
ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcg cgtcgccctc 240
cgcggcgctg tgcagcgggg tgcgctcgt caacagccgc gcgtcgtcgg cggcggaaccg 300

gcaggccacc tgcaactgcc tcaagagcat gacggggccgg ctcgggcggcg gcgtcagcat 360
 ggccaacgcc gncaacatcc cgggcaagtg cggcgtctcc gtcggcgtgc ccatcaggcc 420
 caccgtcgac tgcaccaaga tc 442

<210> 20149
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E6

<400> 20149

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 caacgattca cacttaactt tgatggctac agactcatcc tgcgattac tctaacgctc 120
 taacctccat gcatactggg acttgcacat acgtatctac ccacttcaat cgaatataaa 180
 gcttcaaaca tc 192

<210> 20150
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E7

<400> 20150

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 atctatacca tatctacttt ctgcaacgat tcccactcaa tcttgggtggc ttcagactca 120
 tcctataaat cactctaacg ctctaacatc catttctact gctaattggca tcaacgtatc 180
 tacctatttc agtcaatata aagattcaaa catctcacat cataagtgtg accaatcctc 240
 atctactcaa tcatcagact ctctttcaac tgctctatat gatatatctc aaatcgctct 300
 ctttactcta acgcatgctt tcca 324

<210> 20151
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E8

<400> 20151

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caaagcttca agctgattga ggcaggggag tttcagcaag catgtggcgt agacaaggaa 120

caatgctgtg caacattgtc ttctatcctg tcatttaca agccaattta caggaaagaa 180

atgatcttat gaccccgat cagagtattc ctcttcgaaa gtaactccga atcagttcat 240

agaagctgta ctccattcca tagtttttat cacattgaca aactccgaat cagttaatag 300

aagctgtact ccattccata gttttcatca cattgacaaa ctgaagtaat gattggaacg 360

catccataca aagggcctgt tatgtc 386

<210> 20152

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-059-Q1-K1-E9

<400> 20152

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tgatgattga atgttgctgc gtttatctct ggctennctg ttntatgcac taatccaatg 120

aggctgaact cttgttggtca attgcaaaag gaaaatcctg ctcgagccaa cggccacatc 180

ttcaatgttg ggaatccgaa caatgaagtt accgtagggg agttggccca aatgatgaca 240

gaggtatgcc atatattggt gaccctgact ggtgtacttg ttacttgttt ctattgtaag 300

tcatctattg tgatcttgct acgaggttct agtattttcg caacggacaa aagagttgga 360

gagtactacc tatattcgaa aggtctngat gtttgccaaa ttgatgg 407

<210> 20153

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F1

<400> 20153

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gggctagctc cccgacgcgg atgctctgca cgttcttcta ctctgtaccc tactactcca 120
 tcctgagcaa ggcattctctc aagtccgacg acatcaactt cagcgtcgat ctgctggagc 180
 tcatgaccga cctgaaacct atccacaagt cttcattgac tagggccgac aagagcctgg 240
 ctctatgggc tacgtctact ctgctataca tcccactata tgtcacgaga ctctcggaca 300
 ctacgctgca gtgcaagatc cctacaattg agacgcatat catg 344

<210> 20154
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F10

<400> 20154

cggaggcgtg cgtgctgcgg cctgcggcct gcaggaccag agatcgggga ctgatctagg 60
 gtctgggact gggaggcgga gatgtcgacg ccgtcgagga agcgcctgat gcgggacttc 120
 aagctgttgc atcatgaccc gtccgccggc atcagcggct cgccgcacga caacaacatc 180
 atgctctgga acgccgtcat attcgggccg gatgacacgc ctagggacgg atgcacgttc 240
 tagctgactc ttctatgtac agaaga 266

<210> 20155
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F11

<400> 20155

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 cacaactgca ccgagggggg aggagacctt aaaactacta catcttttag ctacacatct 120
 agctaaagat cgagaggggt aaataaggac gagtgggcgc tagctagaag agcagctgca 180
 ggtactacca tcatcgctgt cgctcgctgc gccaggatga ccgtcgtcga cgccgtcgtc 240
 tcctccaccg ataccggcgc ccttgccgcc gccgccgtac cggcggggaa cgggcagacc 300
 gtgtgcgtca ccggcgccgc cgggtacatc gcctcgtggt tggtgaaact gctgctcgag 360
 aaaggatata ctgtgaaggg caccgtgagg aaccagatg acccg 405

<210> 20156
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-D5

<400> 20156

atccctactt aaaaaactct gtacttaagt tttcacaatt cactatttcc caggccgttt 60
ctctcattca caggtctggt acattcacca accatttaca aacctccttc agttatccaa 120
tccttcttat tctgactgac cctaggactg atcatattac cattaaagag tctactctta 180
caaacattcc caccatcgcc ttctgtaata c 211

<210> 20157
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B8

<400> 20157

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ttttggcctc tacaatgaat tatcagagct tgttgggtta ggatgcgcgg ataacaactt 120
aaacaccagc aatgtggaaa ctacggatta tctcatgttg ccacctgaca gagaactgtc 180
ggctaatagat tacatggaac taaacgatct ccttgctcct gacccaagct ttcccagtga 240
attttctgct caggacaatc aatatatgca gcacacctt gctcagtaca atggacatta 300
tgatctgtcg gtcttcgga gccacaatg cctagcattt tcgatgtttt tcctcccaat 360
aatggagtcc tcgcaacaga tgatccagcc aactacttgg acccagccat gcagttccct 420
ttctcatgat tggttaccat 440

<210> 20158
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B9

<400> 20158

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 aggttaaact tcgcgcttgt gacaatgcaa agcaccgtac ctacgttgac cttaaggaca 120
 aatggaagac gctggtacac acagcgagca tctcgccgca tcagcggcgt ggcgagccgg 180
 tgcctcagga gctgctcgac cgggtcctgg cggcccatgc ctactggtcc cagcagcaag 240
 ccaagctcca gcctaagacg cctcgtctgg ctgaggctcg cttgctcacc caataattcg 300
 atgatcccggt ctgatggcct cctctgaggc cgttgcagcc tttgtataaa gtcagtaagt 360
 cccttcacag gaggtttaat gaaaatataa tattagggga aaaaaagaat g 411

<210> 20159
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C1

<400> 20159

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 atcaatcaca gacaatctca taagctagct cctcacaggc tcgtcattct tcacaccgaa 120
 gtacctgtac tatatctcgc gggctctaca atgtcaccat gtgccacata ttcattcatga 180
 agcttatgca gctgaaaata gtagaattcc acataccttg ccttgtcacg atcctagaac 240
 tgcttaacat tacactgtca accacacaac ttgtcgtact gatgcagatc tacaaaggcc 300
 agactgtc 308

<210> 20160
 <211> 139
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C11

<400> 20160

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 taattttcat caatcccctc aagctcacat tcctgacata atatctcatc acccagatct 120
 actcatgcac tttctcaca 139

<210> 20161

<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C12

<400> 20161

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aaatgttcta gaacctctaa atctattact aagagcaacg atattgtcgc ttcttaaacc 120
ttagtactac ggatgttatg agctaataaa tatatttcgc taatgtgatg cagtt 175

<210> 20162
<211> 479
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-059-Q1-K1-C2

<400> 20162

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gggaacagca ggggtgtacag gggcagcctc gcctgcggcc ggcaggtggc gatcaagctg 120
tgcaaggcgt cggcggaggc gtccaaggac ttctccggg aggtggacat catcaccaag 180
ctgcagcacc accggatcgt ccccttgatc ggcgtctgcg tggaaggccg caacctcatc 240
tccgtttacc gctacctccc caggggcagc ctcgaggaca acctacacgg ggaaaggtca 300
aagccggcgc tgtcgtggga gaaccggtac aaggctgcgc tggggatcgc ggaggctctg 360
agctacctgc actccggcag ctcgcggccg gtgatccaca gggacgtcaa gtcgtccaac 420
atcctnctta cagaagagtt cgagcctcag ctatccgatt tcgggctggc catctgggc 479

<210> 20163
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C3

<400> 20163

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ttggtaatgt tctacggcga tctcttctca gaaggctcaa ctctaattcca gaaagagatc 120

tacctccaaa gtactaatcc atactcaaag gctctatatc tcacacgcag aagcttcact 180
attatacttt acatctaaat tcttctgatg caagccaatc cagttctgaa tacgctagca 240
actgccaaata aggctcaata accatctcat taaactggtc caattctatc cgaccaatat 300
ttctatcgca tgataaaaact aaaggccttg aaagaatcta atcttgcttt ctctcaacat 360
gg 362

<210> 20164
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-059-Q1-K1-C4

<400> 20164
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gagagagggt ggcgggggag gcgcggccga gctcgtcggg gctaacaccg gcgaagccgg 120
ggcggtcga ggtgcagcgc cgacgggcgg gcagcggttg gacgagccgt cggatctcca 180
tctacgctc ccgagtctac ttctctctca tcatgtcca gatcccgtc ttcagggtcc 240
cttgtagagc tggcacatgc acaactcta ttcaagtaac atcatctcag ttggtctcaa 300
atgatattatt cccagcagct gttgtgaagg ccatgtctta ccctggagct accgtgagca 360
gcctaactaa nagcaagaca tttccgagtt ggaatgacct gtttgacatg tacaacctga 420
cagaagcana naatgcttct gcagtagtt 449

<210> 20165
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-059-Q1-K1-C5

<400> 20165
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aatctgtcag gagccgtgct tggatattat cctgtcaatg ttctgccgtc aaaaactgcc 120
attgcaccag tcaacaaaac attcctaccc aggtctaacg atgaacatga aatgtgtgca 180

aggactatct actgcacaaa ttaacattga caagaaggtc actcaagcag atctaaagtt 240
attcttttgag tccatatgtg gtgaggttgg tcgttcttta ctccaaacac aatctccctt 300
ctgtatagct aaaagtttgc agaaatggca ccatcaagat cgatctggag accaacaaga 360
tcatggactt catcaagttt gacgtcggca acgtgggtcat gatgaccggc gggaggaaca 420
ccgggcatgt angagtgatc aagaacaggg agaagcaca ggg 463

<210> 20166
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-059-Q1-K1-C6

<400> 20166

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acgccaccaa attaaagcaa aatcagtaaa ttcactaatg gcagccttca cttggctatt 120
agcaggaata tcatggcatg aaaatttctg ttctacctct aattcccaat caagatatgc 180
agcaggatca tatttaccat taaaagatgg aatttttaaat ttaatcttag aaaataagtc 240
attaggggga tgacgaacca cacgacgtgc acgaccacgg cgatctccat cgtcctgctc 300
agtgtcaccg ccgtattcct gctccatctt tgtgggtcaat gcatcaaggc gtgccaggat 360
gggtgctgagt gtggtgctgag tcgccgtttg agcaaggatca agttggttga aacgctncgt 420
cgtcgaaatg atcgggtggat c 441

<210> 20167
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C7

<400> 20167

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aggtgacgac gatgaagtga aagaaagcat aaatgggttca gaggatgaag ctttagacca 120
gaaggaagac agcgaagagg aagacaagtc aaaaggcagt ggctctaaag cgcagaagag 180

gaagtttcat gatttatattg gacagctaag ttctgctgat gcaagccttc gagttctgaa 240
gaggtttagca actgccaaga aggctgaaga accatctgat gaaactggta aaattctatc 300
cgatgaagat ttcaaacgca tcaaagaact caaggcaaag aaagaggcga agctggcttt 360
ggctcagcat ggactaatca aggggtgtcga cacatgggtc gtaaccttta agatgccatc 420
atctgaccag ctcagcagga agcgtgtcga tccacttgag ctt 463

<210> 20168
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C8

<400> 20168

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gctaaagaca aatctatcag catagttact ctaaaaaatt gaagcgcaat caatcaatac 120
actaatctcc accttcaact cactattaac aacaatatca tatcattaaa attccttattc 180
tacctttaat tcccaatcaa taaatacatc ataatcatat ttaccattta aacattcaat 240
ttt 243

<210> 20169
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C9

<400> 20169

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tgcgagcggc cagagcgcca ccatcgtgga cgccatcggc aagggcgtgg agcagctcat 120
cagcctgggc gccatgtacg tgggtggccc ggtcgtgctg cccgtggggc gcttaccgat 180
ctacctgacg ctgtaccaga cctccagcgc cggcgactac gaccagtacg gctgcctgaa 240
gcgcttcaac gcgctgtcgg cgcatacaaa ctcgctgctg caagccaagg tgtctagcct 300
gcatagcaag taccgccggc cgcgggtcat gtacgc 336

<210> 20170

<211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-D1

 <400> 20170

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 gaaggaagac agcgaagagg aagacaagtc aaaaggcagt ggctctaaag cgcagaagag 180
 gaagtttcat gattatattg gacagctaag ttctgctgat gcaagccttc gagttctgaa 240
 gaggttagca actgccaaga aggctgaaga accatctgat gaaactggta aaattctatc 300
 cgatgaagat ttcaaacgca tcaaagaact caaggcaaag aaagaggcga agctggcttt 360
 ggctcagcat ggactaatca aggggtgtcga cacaaggctc gtaaccttta agatgccatc 420
 atc 423

<210> 20171
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-D12

 <400> 20171

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 agataagaaa attcgagcat tgaaaaagaa gatacgctta gctgaagcac aagtacaagg 180
 tgaccctgaa aaattgagat ctgaggcact ggaaaagatg aaaaagcttg atggatggct 240
 tatggagctg aagcttttgg aggacaagag agcgcttgct gcttagacaa aatcaacttc 300
 ggttctgatg tagagccacc gcgaccacac catggtgccg atccagattc gaaagtgcaa 360
 ctgaatcacc at 372

<210> 20172
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-D4

<400> 20172

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catctatctt aatatcctaa atccacaatt atcaaaccat attttcactc ttttaacttc 180
attaccaact tcacttaaca tttcaatcaa catatctcaa attcatatca atctaactta 240
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<210> 20173

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B7

<400> 20173

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aggacgttct cgcactatgt agtggcagtt taccttcttg gtgttatcaa atgaccaagg 180
cctgcccatt cctgtttcct tttgagacaa ggaggcagta cttctattcc acagcctttg 240
ggttgtcacg agcattgaat cgactccagc aacagcagag tgataatcac agctctgggtg 300
gtgaaagaga ggtcaggttt ggcaggttac aacgccagaa agttcgtgtt tcccgttaacc 360
gtattctaga ttctgctgct aaagttatgg agatgttctc cagtcagagg gctgttcttg 420
aggtggaata cttttgc 437

<210> 20174

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A11

<400> 20174

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tcgatgagcc gacaaatcat ttggacattg agaccattga ctccctggcg gaggcactga 120

atgagtggga tgggtggttg gtcttgggtga gccatgattt caggctgata aaccagggttg 180
ctcaagagat ttgggtgtgt gagaatcagg cggtgacaag gtgggaaggt gatatcatgg 240
atctcaaggc acacttgaag agcaaggctg gtttatctga ttagagggct tttccagca 300
accatgagct ttttaactct gtatcacgaa gtcccagttt tccaatagcg aactatcaga 360
gttactttat tgtatcggat ttcttttgac ttgcattgca acctgattac cttatacta 419

<210> 20175
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A12

<400> 20175

ctcagaacac acacaccgag tgtggatgtc taagccatcg ctgtcccat ctgctagggc 60
gcgggggccc gacggggact cgatcatgta caagcgctcg ctccagaagc gctggatgca 120
gtaccggaag tacttgcagc atccccggct gcagtactgg cactccgaga acgaggtggt 180
ctccgaagac gtggctcgctg aggactagag cgacatcaag gtggacaacg agctcagacg 240
catgcagcag ctgcgtcatg tcggaacgat cgacgacggg actttaggac tctacgagaa 300
gcacgtggcc atgattgacc tcgatcacga acacaggcac aatatcacag tagaagatca 360
tagcgtgct gacgtttgtg cggcggtta cgtattatag cagcaccatt 410

<210> 20176
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A3

<400> 20176

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tcggattccg cgcccagcag cgaggcatgg tggagaagcg gaggaccatg gcgcgcaggc 120
tggagatccc ccagtgggaag gccgacggcc tgccgtcgcc gacgagcccg ctggaccgcg 180
cgtcggcgtc gcccgtggg tggcgccacc gcgacccgt atgaggaggc gtggggctcg 240
ggatcctggc ggcgctcgaa gccgagggc cgccgcagcc cgcccgagg gtgtccatcc 300

cgcggcgcgc ggtgcggctg gaggtgtcgg agctcgggtg cagcgggcgc tgcgcca 357

<210> 20177
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A4

<400> 20177

agggttttcg cgccgccgcc gcagccgcaa caatgccgtc gcacaagacc ttccggagca 60
agaagaagct ggcaagaag atgcgccaga accgccccat cccctactgg atccgcatgc 120
gcactgacaa taccatcagg tacaacgcca agcgcaggca ctggcgccgc accaagctcg 180
gcttctgagc gtcgggattg gccggctgct gcgtcggaag gctagggctc aagagctatc 240
ttctgtttta tcattgtctc tgtttctgta agctagcaag tgatgctgtg atgcttttat 300
taagattctg atgagtgggtg acgttaagag aaaattggca gtactgtgtt gtaccccaag 360
attccttgca gcattgctat gctaagtaac gaacccttta tcttaaaaaa aaaaaa 416

<210> 20178
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A5

<400> 20178

ttcgttctaa ccctccctgc gactcttcga cccattactc gctatggact cggctggggt 60
gtccagcta atcctgggcg tgacgctcga cgcgcttggt ctgctgcagg actccgtgga 120
gttacgcgct catcgagcgc gcccatcatt cgctgaacga gctagtctac gctcctgtcg 180
tcacctcttg aaacatttg ctcgtggaat tctgcacacg tgtggcaata gccccatct 240
caaacgctgt acataagtct aagccacaat atgtaccagt cttcactaaa gatc 294

<210> 20179
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A6

<400> 20179

ctcaacccaa ggcgtgcctc ctctccggtc acccgtcact ccacgcaacc atgtcgagga 60

ggaagaccag ggagcccaag gaggagaacg tcacccttgg acccactgtc cgtgaaggag 120

agtatgtctt tgggtgcgct cacatctttg catccttcaa tgacaccttc attcatatca 180

ctgatttgtc tgggagggaa actctgggtc ggatcaccgg tggcatgaag gtgaaggctg 240

accgtgacga gtcgtcacct tacgtgtgta tgcttgcgtc tcaagacgtc gcacagcgct 300

gcaaggagct tggcattact gcaactgcaca ttaagcttcg cgccaccgga ggcaacatga 360

ccaagacccc tggacctggg gccagctctg ccctcatggc gcttgctcgt tccggaatga 420

aaatcggacg cattg 435

<210> 20180

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-059-Q1-K1-A8

<400> 20180

cccacgcgtc cgcagacaaa agatggcact ataccagtat ctttacaagg atagcagggt 60

cgcataatcca tgtaaagata ctggtatagt gcagacaaaa gatggcactt tctgctcgtg 120

catgcttcga aattctattg tctgtacgcc acataatggc atgttttatg ctgtttgtgg 180

ctttcttgac ttgaatgcta attcgttctt acatagaagt gatggcagtt tccttagcta 240

caaaccttat tttaaggaaa ggtacaacct tgatttaaga tgtgaagatc aagctctctt 300

ggaagctcgt aaacttgtgg aagtgcggaa ctttctccac aagtgttaact attaaaaaga 360

aaaagaaagg agtggttaaga gtgtggttga attgccaccc gaactgtgca tangtgtcat 420

gtcaccaatg tccgcaatta ctttg 445

<210> 20181

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-059-Q1-K1-A9

agctcgtcat cgtcggcgat ggtggaactg gtaaaactac atttgtgaag aggcatctca 180
 ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagttcat ccgttggatt 240
 tcaccactaa ctgtggtaag atcaggttct actgctggga taccggcagg caagagaagt 300
 ttggtggcct cagggatggg atctatatcc atggccagtg tgcgatcatc atgtttgatg 360
 taacctcaag gcttacttac aagaatgttc ctacgtggca t 401

<210> 20184
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B11

<400> 20184

gagataaaaa tagactatga aggtagattt gattccgata gtggtgatga gaataactgg 60
 aagttgttgg tgatgcaaag acatgggaaa cctgatgcta tgatgcagtc atggatggat 120
 caatttgagg ctgattctga caacgaatgc tgggcatctt tttaagagcg gatctcaaga 180
 gcaccaaatac aagtgttgag gtattgtcga gaaccaaatac cttaaactat ctgggcgtta 240
 tcttctgggt gtgcatcaaa tgctgatata ccatcatgta gctactgtaa aggtccatta 300
 tgttatgaat ttcaggtaat gccacaattg ctatatctct ttgtagtggg aaatcaacca 360
 tactcccttg actgagcaac aattgctgtc tacacgtgtc 400

<210> 20185
 <211> 276
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-059-Q1-K1-B12

<400> 20185

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 agtgttgaag tattgtcgag aaccaaatac taaacctatc tgggcgttat cttctgggtg 120
 tccatcaaat gctgatatac catcatgtag ctactgtaaa agtccattat gttatgaaat 180
 ttangtaatg ccacaattgc tatatttctt tgttgtggga aatcaaccag actcccttga 240
 ctgggcaaca attgctgtct acacgtgtca aggggc 276

<210> 20186
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B2

<400> 20186

agtgttccca ctatctgcat gagtgctttc atgtcatgag agctacgcac atcattgggg 60
 cgctctacat gcattatagg ctcaccttta atacattgcg tacctatatt agaagatgga 120
 tccgattgat gaccaggaac acatcgagat taatctcacg gactctttgc agtatactct 180
 gcagccttta atggacaatc ttgaatctta tacttatgag acatttgaca aggatgctga 240
 caagtacact cagccggaga actttccaag tactatgttc agcgaacagg atgcacaaaa 300
 agtcataagc tgcaacgatg cggcgatgaa aaatgttcca aacgtgccct caatgatcag 360
 cttccacata gttctgagca tattactgaa aacaatgatg atttcacaca attgtagttt 420

<210> 20187
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B3

<400> 20187

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 tctgagtctg tcaaggatgc catctcccag attgttgggg atgccaagga gaagaatagg 120
 aagttcactg agactgtgga acttcagatt ggtctgaaga attatgatcc acagaaggac 180
 aagcgtttca gtggctctgt taagttgccc catatccctc gtccaagat gaaggtgtgc 240
 atgcttggtg atgcccagca tgttgaggag gccgagaaga tgggacttga ctacatggat 300
 gttgaggctc tcaagaaaat gaacaagaac aagaagcttg ttaagaggct tgccaagaag 360
 taccatgctt tcttggcatc agaggccatc atcaagcaga ttccccgtct cct 413

<210> 20188
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B5

<400> 20188

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gcacgggttcg gggaggcgcg gggcgggcg cgggcgcaac catcaccagt cgccgtgctc 120
gacgatgacc tccgagcaga acagccggag ctacgcgacc atgccggagt cgccgtccaa 180
ggactcgacg accgcgcagc agtccgtgcc gagcccgctc tccgtgggca tggcagccga 240
ggccctgagc ccgctgcgcg tgccagcgga catcggcgag ctctgcgaca gccccagtt 300
cttctcggcg acgtcgctgt ccggtagctc catgaggggg gtcgcgttca cccagcggt 360
caatatcgag tgctcgcgta gcctcttcgg cggctactac gactgccccca actacatggc 420
gaaca 425

<210> 20189

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B6

<400> 20189

gaacgcgcag aaaccttaag aggacccttg ctacgctctg cttgactatt tagggaggaa 60
cattcatgga ctaggaggta gctcttgga ccaaatcgc ctaacactct aaaaggaaga 120
gctcgcacgt ttactagaaa tgattcgata cagaatagtc actgctgtaa agtgagttca 180
taccaatttg atacaacatt caccttcaca aataaaattc aaatgacatg taagattatg 240
cctgacagcc tgaagaggtc ttcaaaaac caatctcaca actgctgtct gacatgtcct 300
ttcattactt aatatgtgtt cccttgctc tgtagaaaaa ctacataaaa gaagatacga 360
tagaca 366

<210> 20190

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A10

<400> 20190

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agctcggggcg gcagcaggca gccatcatgt cggaggagaa gcaccaccac ttcttcaacc 120
accacaagaa ggacgaggag cagcccggcg gcgagtacgg gtactccgag accgaggtgg 180
tcaccgccac cggcgagggc gagtacgaga ggtacaagaa ggaggagaag gagcacaagc 240
ac 242

<210> 20191
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-G1

<400> 20191

cagcatggca ctgagtataa ccagccaaaa ctttgtggca gtgcaagcgc agaactctgt 60
tctgcagacc cagaagatgg agctggacag caggctgggt gccctgacgg agatcctctg 120
gtacatgaac tcaagcacca gcaccagcac tgctcctaca aatccagcca tagcgaacga 180
cttcacagca tggagcagag cctctgatat tcttggtgga accagctaca gcgccataga 240
cctgtaccaa tgcttctagc tctaagctct agctctagaa gagaaaaagt ggctgtggca 300
tatgacatag tggtagggcc aggaagaaaa gangcgggca ggcacatcaagt tctgttcaat 360
cgtgtggggc ctttgtgtca ctgttgatgt gtgcagtgtg t 401

<210> 20192
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G10

<400> 20192

gtgcctccac cgaatcttca acaggcaaag ccaatcaata atcaccagcc acatcaatcc 60
attccctttc ctctcccgtt ccacttccat gggcaagggt cggtccttct tctcccgtc 120
ccgcagcggc aagcgcggca gctcccggag ggcaggctcg tctcgcgcgc actcctccgc 180
ggcgagcgcg ccgtcgtccc cgtccccact cccactcccg aggaggtcgc cgtcgtcgtc 240

gtcaaccaca accagggacg agacggagcg cgtgttccgc aagttcgacg cgaacggcga 300
 ctggcagatc tcgcggtccg agctggcgcc gctgttcgag ggctgtggcc acgccgtgac 360
 cgacgacgag gtgtcgcgca t 381

<210> 20193
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-058-Q1-K1-G11
 <400> 20193

ctcaagttag aagaagcacc agtgccatgat cgatggcgcc ccaggctctc ctctccggcc 60
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 ccttcgtcgt cagggccagc tcgagccctt cagccaagca aggtgccgac aggcagctgt 180
 ggttcgcgtc caagcagtc ctctcctacc tcgatggcac gctgcccggc gactatggct 240
 tcgacccgct gggcctctcg gacccggagg gcaccggggg cttcatcgag cccaagtggc 300
 tggcctacgg cgaggtgatc aacggccgct acgccatgct gggcgcggtg ggcgccatcg 360
 ccccggagat cttcggcaag atggg 385

<210> 20194
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-058-Q1-K1-G12
 <400> 20194

agttcggcga ggccgtgtgg ttcaaggccg gctcccagat cttcagcgag ggcgggctgg 60
 actacctcgg gaacccgagc ctcattccac gcgagagcat ccttgccatc tgggcctgcc 120
 aggtcgtgct catgggcgcc gtgcagggct accgcacgac cggcgggccc ctcggcgagg 180
 tcgtcgaccc gctctacccc ggcggcagct tcgacccgct cggcctcgcc gacgaccccg 240
 aggccttcgc cgagctcaag gtcaaggagc tcaagaacgg ccgcctcgcc atgttctcca 300
 tgttcggatt cttcgtccag gccatcgta ccgggaaggg cccgctcgag aacctcgctg 360
 accacattgc cgaccccgct aacaacaacg cttgggccta c 401

<210> 20195
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G2

<400> 20195

ggagaagctc cgcgaggctc tcagtttttc caacgcctgc ggcgcttct gaaccaccaa 60
gaagggcgcc atcccggcgc tgcccacggt cgccaccgcc caggacctaa tcgccaaggc 120
caactagatg gccgcacgcc ccgccgttcc accacgtcac tgtccccgc cgtcccgccc 180
ctcgtcgtcg acgtcctcgg ttccggttca ttaggtagat cgagtcttag cgtccgtctc 240
tgcgctcta cgctgagacc cgttgtttgg gttaatttaa gttagctttc gtggagattt 300
cgccccggtg catcaataaa atgttggcat gcgttggtgg gatgctatcc ttttttttta 360

<210> 20196
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-G5

<400> 20196

caagctgcat ctgcataccc atctgatcag aggcttccac tgccaataac tggctttcct 60
aattctccta caggcagaag aggagggact gttccaaatt atcaaggcat ctcacctac 120
attggagtgc caatgactta tcctactagt ccagtgttcc agggacaaac attgcctgga 180
gtattgcctc ctgttaggag aaacgactct gttggatttc tgtccccctc aagaaacatc 240
actggtagcc ctggaattca agggcagcga gcaagacaga agttgatgaa tcaaagacct 300
gctctttctt agaagagttg aagtccaaca gagcgacat ggttgagctn tctgacatca 360
caggctcgtg agttgaatac agtgctgacc aacatg 396

<210> 20197
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G6

<400> 20197

ggaggccgcg cctaccacca tcaccgtcca ggtcaagttc gccgggcgga cgatccccgt 60

ggagggtcccg 70

<210> 20198

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G7

<400> 20198

tcgggactct gggatcgaat tcacagcatc aaacagtgtg aatcctggaa tttccaaacc 60

caaaccgcgc cggagattcc ttccggaagc cgacagggcc ccttgaccgg ctctgtgccc 120

tgcgcgcctt cccaactttt tcggtcttcg gttcccggtc ccgcgaaaagc gaattgctta 180

attgaagggtg ggggctcgtg cctgaatttg aattttgggg 220

<210> 20199

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G8

<400> 20199

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agccccgggt atgatcaata ctagtccggt cgattctgag gataccagcag ttagaagtag 180

ctttcaagga agaagttgcc agcaaccaca tgattattgc cacgccaagt ataccccgag 240

gagccgtggt gtcccaagta tgtg 264

<210> 20200

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H1

<400> 20200

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 agcagcttat catgattggg agtgcagaac tagacttctt cggaagctta aactagactt 120
 cgcacagatt ttttgtacag ttctagagat gtgtagatgc ctttaggaaa aagaggtgta 180
 cacaagcgag tttttcagct ttaatcccc acgggtccgt 219

<210> 20201
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H10

<400> 20201

catttcgcca cgccatggat ttctgcagcc acctccatct cgcggctgtg ctgcgctcc 60
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 ttcaactctc ttggcgcccc acggcgttct tgcacaaggg tctcctggtg gatgcggagt 180
 gcgaccacct catcgcgctg gccaaggaca agctggagaa gtctatggcg gcggacaaca 240
 agtccggtaa gagtgtccag agtgaggtgc gcaccagctc cggcatgttc ctcgagaaga 300
 agcacgatga agtagtaacg agaatagagg agaggatatc tgcttggaca tttcttccac 360
 cagagaatgg tgaagccatt caga 384

<210> 20202
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H11

<400> 20202

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 ttcagctcta ttagctcccc acgacgtgct tgcacaacgg tcttctgttg gatgccgagc 180
 tgcgatacct ctatcgcgct ggccaaggac acgctagata agtctatggc agcggacaac 240
 aagtcctcta agagtgtcca gagtgaggcg cgcaccagtt cctgcatgtt cctcgagaag 300
 aagcacgatg aagtaccaac gacgatatag gagaggatat ctgcttggac attacattca 360

ccagactaat ggcgatagcc attcagagat tacactacc

399

<210> 20203
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H2

<400> 20203

ggcgtcgtac gtgcactcca acgtcgccgg cctcgtcacg ctccctcgagg cctgcaagga 60
cgccgacccg cagccggcca tcgtctgggc cttctcctcc ttcgtctacg gtctcaacga 120
caaggtcccc ttctcggagc ggcaccgcac cgaccagtcg gcctcactct acgcggtcac 180
caagaaagcc ggcgaggaga tcacgcacac gtacaaccac atctacggac tcttca 236

<210> 20204
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H3

<400> 20204

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aaccggctcg tggttgtttt cgacacgcaa actcgcaatg gcacacatcg taa 113

<210> 20205
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H4

<400> 20205

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cggtgacgtc caacggcggc tcagtggccg caaatgggcc ggcgcccggc cggtggcct 120
ccgtgtacag cgaggtgcag acgaaccggc tcctgcacgc ccttaccctt cccttcgtgc 180
tccgtccaa cttctcggtc gtcgtcggcc ccgccagctc cggcgtgggc aatcccgatg 240
agatcgccaa ggcttttccc 260

<210> 20206
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H6

<400> 20206

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 ttgtggacaa gaaaatcaac aatgccagag atcttatcac taccctgcag gatgctatta 120
 gaagtggata tccaattcta atagtggcag aggacattga gcaggaagct cttgcaaccc 180
 ttgtggctaa taggcttaga ggtgcattga agattgctgc tattaaggcc cttgggtttg 240
 gagagcgcaa aagtcaatat cttgatgaca ttgctactct cactggaagc actgtcatca 300
 gagaaaaagt tggattatcc ttagacaagg cagac 335

<210> 20207
 <211> 97
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H7

<400> 20207

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<210> 20208
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H8

<400> 20208

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 ccggccggct ggccttcgtg tacagcgagg tgcagacgaa ccggctcctg cagcccttc 180
 ccctccccta cgtccttcgc ttcaacttct cggtcgtcgt cggctctgcc agcttcgtcg 240

cgggcaaccc cgatgagatc gccaaagtctt ttccc

275

<210> 20209

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H9

<400> 20209

cattcctccc atctcccaag acctcctcag acccgagaag cgcagctgcg gccatggacg 60

ccaccggcac tggagctgga gggaaggcga agaagggagc ggccggtcgc aaggccggcg 120

ggccgaggaa gaagtcggtg acgaggtccg tgaaggccgg gctccagttc cccgtcggcc 180

gcatcgggcy ctacctcaag aaggggccgct acgcgcatcg cgtcggcagc ggtgcccccg 240

tctacctcgc ggtcgtcctg gagtacctcg ccgctgaggt cctggagctc gccggcaacg 300

ctgccaagga caacaagaag acgcgcatcg tcccgcgcca cgtgctgctg gcgatccgca 360

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<210> 20210

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-F7

<400> 20210

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atcatgcctg gcatcaaggt tgacaagggt ttggttccat tgcttgatc caacaatgaa 120

tcatggtgcc aaggtcttga tggtttggtc tcaaggtgtg ctgagtacta taagcagggg 180

gcgcgcttcg caaagtggag gactgttggt agcatccctt gtggtccatc tgcattagca 240

gtcaaggaag cagcatgggg acttgctcga tatgctgcta ttgctcagga taatggttta 300

gtgccaattg tggagccaga gattcttctt gatggagacc atgggatcga gggagctctt 360

gaggtggcag agaaagtgtg gtctgaggtg tttttctact tagccgagaa caatgttctg 420

<210> 20211

<211> 318

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-A1

 <400> 20211

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 ctctgggtctc ctgcctcggg ccagctcttc tctgaatgcc gcggtggccc atcgaatctc 120
 tgactgaact gatttccggg tgggtcgtgc ctttcttctc tggcacggta cgcgcagtcc 180
 gtttcgctgc cggcgaacac gcatgcagaa gcagactcgt cttatcgtgc tcacctgagg 240
 cagaccgtcg tgcccgcctg gcccgaggta gaacgagcta gcatgagcag ctttcaaact 300
 gcctgctcgt cgtggggac 318

<210> 20212
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-D7

 <400> 20212

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 agtctcggat taaagagctc gagcaggcag ctcacagctt agactattca gcttccgaga 120
 tagttgagct acaagaagta ataaggaata cacatgcaga attagaaaag gtcacatagg 180
 agaaggacgt gctcaaagaa cacgctaacy aatttgagca ccgtttaaag ggcctngagg 240
 tctcaggtac agagggttgca aagctaccag aaactatcag gaacctggaa gcccatctag 300
 gaagatcctt cgaagagaaa tcag 324

<210> 20213
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-D9

 <400> 20213

 caccttcttc ttgcgcggca ggtccgccc caccatgccc agacgcaagc agctcacggc 60

cgctccgctgc agcgccgtca gacaggccgt agtggaagag gcctcgcccg ggaccgcgga 120
 cgatccgctg ctggtgagcg caatcagagg gacgaaggtc gagaagccac ccgtatggct 180
 catgaggcac gccgggaggt acatgaagag ctaccaattg ctctgcgagc ggcattccttc 240
 gttccgtgaa agatcagaaa atgtcgacct agttgttgag atctctttgc aaccatggaa 300
 ggttttcaag cctgaaggaa tcattcttggc ctcgacatt c 341

<210> 20214
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E1

<400> 20214

gcggcgccga tgggcggtga ccatggcggg gggcacgccg gcggcgactt ccgccagaag 60
 gtatggagca tgacgggcgg cccctactgc cgccccgtcc actggcgccg taacaccgcc 120
 atcgccatgt tcggcgtctt cctcatctgc atccccatcg ctatgaagtc cgcagagctc 180
 gagcaacgcc cgcattcccc agtcggcca atccatctc aactgtggtg caaaaacttt 240
 ggtaagaagg aatactgaag gaccctccaa ctagcatgaa gtgtgggcac cttgcttttg 300
 ccttcttttt gtggaaacct gtgcctagcc ataatgctgg gttaagtgtt aggagcatct 360
 ctggaatgct tcgcgtagta tcttt 385

<210> 20215
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E11

<400> 20215

gaagaagcgc aaggaggagc tcaaggagaa gtttgagggc ctctgcaagg tcatcaagga 60
 ggtgctgggc gacaaggtag agaaggtagt ggtctccgac cgcgtggtgg actccccctg 120
 ctgcctggtg accggcgagt acggttgga cgcacaatg gagcggatca tgaaagccca 180
 ggcgctgagg gactccagca tgtctgggta catgtcctcc aagaagacga tggagatcaa 240
 ccccgagaac gccatcatgg aggagctccg caagcgtgcc gaggctgaca agaacgacaa 300

gtccgttaag gaccttgtca tgctgctggt cgagacggcg ctgctcactt ctggcttttag 360
cctcgacgat cccaacacct ttggcagccg catccacegc atgctcaagc t 411

<210> 20216
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E2

<400> 20216

aattccccgc ccgactctac cctgcctcta gctagttgct ctactagatg gcttttatag 60
agcttcctgc 70

<210> 20217
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E3

<400> 20217

atcaatccca tcttgtaaac tgcttgaaga agtatgcaag aggaattttg ctacgcattt 60
tgattattgc acaactgctt gcacggactt tgtgtcatta gatgaggcaa catttaagga 120
tattcttgag catggtgata tgacagtaac gtcggaagag agggttcttg atgtcatttt 180
aacatggtgc atgggagctt gtgaaacttt tcaactggact tcagtagatg agctgttgag 240
aacttcaaca acagaacagc tctttgggga aaagcttttc gccatcaata ctttgctacc 300
attagtgaag ttccctttga tgcacctgtc tataactaaag aggatggaga gaagtaatct 360
agcaaaccac atacaagcat 380

<210> 20218
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E4

<400> 20218

tattcatacg agcttcgccc tctctctttt accccttctc atctcctacg ctagggtctg 60

ctaccgacgt gagttagccg accaagtcgt acgcgcagga tcgcctcgtg cacctgctga 120
tctagcgcaa ctacacagaa ctcattgtgg atctctgcct tgccgtcgag ctctcacgg 180
tatccaccct cgacgaggta gtgtacaacc gctegactga gttcatgtgg ctgttgacaga 240
ccgccttcct gactgacacc ttttgattca tcatcaagca aatgtgggtc tacact 296

<210> 20219
<211> 436
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-E5
<400> 20219

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gaccgcccgc agaatgccgt tcaagaggtt cgtggagatc gggcgcggtg ccctgggtgaa 120
ctacggcaaa gactatggcc gcctcgtcgt catcgtcgat gtggtcgacc agaacagggc 180
acttgtggac gcccctgata tggtcagggt ccagattaac ttcaaacggc tctcacttac 240
tgacatcaag attgacatca aacgcgttcc caagaagtca accctgatca aggctatgga 300
agaagctgat gtgaagacga agtgggaaaa cagctcatgg tgcaagaagc tgattgtcca 360
gaagaggagg gctgcgctca gtgactntga caggttcaag gtcattgctg caaggatcaa 420
gaggggtggt gctatc 436

<210> 20220
<211> 60
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-058-Q1-K1-E6
<400> 20220

gttcttactg ccatccattg aaacaagatg gaagtcccaa tgcgcgccaa aagaaccggg 60

<210> 20221
<211> 400
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-058-Q1-K1-E7

<400> 20221
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 acgcgaagcc ctgttggttt tgaagaaaaa acttcaagga agcaggaaat tcaatgtgga 120
 cggcaagaaa gttcagctcg tgtcatgaaa gccaaagcaa taggaattct ttacgttggt 180
 ggtgtctttg gggtgatttc cgtttcttct cgttggtggtc tgtagcttca aggaagcatg 240
 aaattcaatg tggacggcaa gaaagttcag ctctgtgcat gaaagccaag caaataggaa 300
 ttctttacgt tggttggtgtc cagcactcgt atttgttggt gctcgagggt ccaaacagat 360
 gtaggagcac attgagctat gtagtactag tactggtata 400

<210> 20222
 <211> 84
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E9

<400> 20222
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 tgcccttctc cacaatgcga ccca 84

<210> 20223
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-F1

<400> 20223
 caactaggca gcatacagac gactagtctg ttggtcacct gactaacacc agctagcggc 60
 tcggtctctc ctgcaataat ggccgatcgc tactttctct accagccgca gctggacgcg 120
 gcggcagagg tcctggcaat ggcgctgctg ctgcaggcgg ccacagccgg gacggcgctcg 180
 gctgaagtga gctgcagcca ggtgacgtac tccgaggcgc ccgacctcag atacacgatg 240
 agcaacacga cgtcaccctc cacggcgagc tggaacgggg tgcgctcgct caacatgcgg 300
 gcggcgacag cggcggaaccg gca 323

<210> 20224
 <211> 159
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-F10

 <400> 20224

 tcttcctaca gtcactaatc tctaaaaatc attccaaact tttaaactat tcactggggc 60
 aagctatatt acctactatc aaagctttcc acaccatttc atcatcaatt cactcacaac 120
 atatcttaca tctacaaaga tctgactacc acccttctt 159

<210> 20225
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-F11

 <400> 20225

 ccaaaccaga caagcaagga atccccgat ggctcatcgc gttctcctcc tcctctctct 60
 cgcgctcggcc gccgcggttg ccgccgccgt cgacgcggag gaccgcgtga tccggcaggt 120
 ggttcccggt ggagatgaca acgatctgga gctgaacgcg gagtcccact tcctgagctt 180
 cgtgcagcgg ttccggcaagt cctacaagga cgccgacgag cacgcgtacc ggctgtccgt 240
 tttcaaggcc aacctgcgcc gcgcgcgccg gcaccagctg ctggaccgct cggcggagca 300
 cggcgtcact aagttctccg acctcacgcc ggcagagttc cgccggacct acctcggcct 360
 ccgcaagtcc cggcgcgctc tcctcagaga actcggggag tcggcgcacg 410

<210> 20226
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-F12

 <400> 20226

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 cgctgtgta cacgactttg tcgatgacga gcacgcgact gacgcgttga tgcagagagc 120
 ggtagtctgc agtgacgacg acgaggtgaa tctgatcgcg gatgcctact cgatgagctt 180

cgtgcacaac ttagacaaga cataactggga cgcctacgag gacacgtacc gagtgagcga 240
 tctcatggac aaattgcgca gagcgcgccg actgcagctg ctggacccgt ctgcggagct 300
 cggagcctct acgatgttgg acgtcacgcc ggaagagatt cgacggac 348

<210> 20227

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-F2

<400> 20227

tcggccttcc ctcccaaact tgcacgctgt ccccgcgctc gcctccgccc ccgatccaaa 60
 tccaggggtgg aataggggaac ggccatacac catggcggat ttctccaagg aatcttgccc 120
 ttctgtgaag aacattttac ttctggattc tgaaggaaaag cgtgttgctg taaagtattt 180
 ctcagatgat tggccgacta atgcatcaaa gttagcctac gaaaagtctg tttttactaa 240
 aactctaaag acaaatgcac ggacagaagc tgagataaca ttgtttgatg gttatattgt 300
 cgttttacaag tttgtacatg accttcactt ttttgtcacc gctggagatg atgagaatga 360
 gctcatctta gcaagtgtac tacatggttt ttttgattct gttggtcttc tactcagggg 420
 tgatgttgag aagc 434

<210> 20228

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-F3

<400> 20228

gcgaatcaca gacgcgtcta tctcagcttg ctgcgctgca ctaccctgcc ctgccatcat 60
 atcgtagctg agcccggccg agcgagagcg agggagagggc atggctgctc cgaagctcgc 120
 gacgctggcg ctggccgtgc tcttggcggc gaccgtggtg gctcccccg cgcgggtgcg 180
 cgcggcgatg tcgtgttcca ccgtgtacag cacgctgatg ccgtgcctgc cgttcgtcca 240
 gatgggcggg gccattgccg cccagccgtg ct 272

<210> 20229
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-F5

 <400> 20229

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 atataagcaa gcagcgaacc tctgcaaaca tggatcatcag cgaagcacia agcgcagatc 120
 gtcgatctag cgagctcgga gtcggagcac gcctagacac caaagcaatg gcggctcggc 180
 ggctcctcgt cgcgttcctt gccttgtgct ctggcttctc ggccgtccac gggcagaagt 240
 tcaacgccat cttcagcttc ggcgactcca tgtccgacac cggcaacctg tgcgtgaacg 300
 gtcnccccgc cggcctgacg ctcaccacgc cgtcctacgg cgagaccttc ttcggccggc 360
 ccacctgccg ctgctccgac ggccgtctcg tcgtcgactt cctggccgag aagttcgggc 420
 tg 422

<210> 20230
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-D6

 <400> 20230

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 gcccggttgg tttggaagca tagaaacaga gtggtgttcg gtagagtttc ttccaacctc 120
 actcttattc tggagtccgc taatgaggaa agcgagaaat ggcaagctgc aggagccaag 180
 ggttatcctt tctggctgct ccaagccata taagttaggg tggttggatc cttcatggat 240
 attttcatgt acttctgttg ttggcctccg taagaagtgc atgtaccccg ggtgtctttc 300
 agccctttgt attcttcgtc ttttaataata gtggggcaca gttctcctgt gcttttcggg 360
 aaaaaaatat gtgcatttat ttaagtctct taccattaag tgtttataaa atatgtntca 420
 tgggtcttt 429

<210> 20231
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-F6

<400> 20231

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 ggacaacatc ctcaaggggc atgggacgtc ggatcaggac ggggaggtgg ttgcgacgct 120
 ctgcgggggtg gtggagcggg tcaacaagct ggtctacgtc cgcactcttc gcgcgagata 180
 caagccggag gttggtgata tcatagttgg ccgtgtgatt gagattgctc ctaagcgatg 240
 gaggttggag ataaatttta gccaaagatgc tgttctgatg ctttcatcta tgaacttgcc 300
 tgatggtatt cagagaagga gaactgctgt tgatgaactt aatatgcgga gtatctntga 360
 agaaaatgat gttatctgtg ctgaagtctg aggcttccaa catgatggat c 411

<210> 20232
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-C1

<400> 20232

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 cttcttagac cacttccaca agaaaccgt gccacaaaag ccaaagccag aaccaagcc 180
 agaaccaag ccacagccta agcccgagta ccacccttcg acaccacat atgtttctcc 240
 aactcccatc tatcaccgt ccgtgagac agaaatgaag tatgacaaga agcacttctt 300
 tgatcactt 309

<210> 20233
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-C10

<400> 20233

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gaggaggacc tggacgccta cgccaagctc tacgagaagt ccggcttcgg gtacccgctc 120

aagatgccgt acagatctat gcacaagctc ccgaaccggc tggacgcaa gttccagggtg 180

ccggtgttca tggatgatggg ggagaaggac tacgcgttca agttcccggg gttcgagacc 240

gccatgcgcg gcggcgctcat ggacaacttc atgccggacc tcaagatcac ctacatccct 300

gaggggagcc acttcgtgca ggagcagctc ccagagcagg tcaacgacct gtcctcggc 360

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<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-C11

<400> 20234

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taaggatgca ctctaagtag atggaggata ttcaagaagc atatgctggc caaattgttg 120

ctgttttttg tgttgattgt gcatcaggcg atacatttac tgatggaaca gtgaaatata 180

ctatgacttc aatgaatgtc cctgaacctg tgatgtcctt ggcagcttca cctatatcta 240

aagactctgg aggacagttt tcaaaagctc tgaatcgctt ccaaaaggag gatcctactt 300

tccgtgtggg tttggatgct gagagtggcc agactattat ttccgggatg ggtgagctgc 360

atctggatat atacgttgaa cgtattaaga gagagttcaa ggt 403

<210> 20235

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-C12

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agtcgctgca caagaagtgg tgggtggctcg gggtcatgaa cgcgacgatac gtgctggacc 180
tgctgggcct cttgatcgcc tatgccgccg ggtccagcag gacgtggaag acttctgtgg 240
ttgtttccgc tctcgttctc gctgtgctcg cctatttcgt catacatgtg ctgctgtcaa 300
gctgcgtcag gagaggggaag aagacagccc ccgactctcg gccccatgac caggagaaca 360
gagaggaaaa cgaagcggca acgaaagagg tcgagctcca ggtccagct 410

<210> 20236
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-C2

<400> 20236

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gtgaccatca tgggacgtac ggccggcgtc aggcccaagc tgggcaagca aggcacctac 180
aacgtgaagc tgatcacgcc agaggagag ctacagctgc aactgcccga cgacatggac 240
atact 245

<210> 20237
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-C3

<400> 20237

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gggcgggtac gtcaagatgc agatcttcgt gaagaccctg acgggaaaga ccatcacctt 120
cgaggctgag agcagcgata caatcgaca tgtaaggcc aagatccagg acaaggaagg 180
tatcccgcgc gaccagcagc gactaatctt tgcgngaaag cagctcgaag acggccgcac 240
cttgcccgac tacaacatcc agaaggagtc cacccttcac cttgttcttc gccttcgcgg 300
tggca 305

<210> 20238
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-C4

 <400> 20238

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 gcaatgccac agaaaggcga agagatgaag caactgagaa tgccctcgcc gtgaaaggga 120
 atacccttgga gaacaatggc gatgacaccg gggcagctta gcgcacgcca aaataggcag 180
 aacaggatca tgcaaaccct agctctgatc ccttcatcaa gatctccgtt tggcaagaat 240
 gaagagggttg cagccagccg tcaaaaactc taattcactt atgagcgccc taagaaacag 300
 tccgtgagcc cncctagcgt tttgcagtcc 330

<210> 20239
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-C6

 <400> 20239

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 aggagaagaa cattgctgtc attgttgga cagtcacaga tgacaaaagg atccaggagg 120
 ttccagcaat gaaggttact gccctgaggt tcacggagac agcaagggcc aggattgtca 180
 atgctggttg cgagtgcctc acatttgacc agcttgctct tcgtgctcca cttggcgaga 240
 acacggtcct cttgaggggc cccaagaatg cccgtgaggg agtgaggcac tttggcaagg 300
 ctctggaggt gccgcacagt cacaccaagc cgtatgtgcg ctccaaggga aggaagtctg 360
 agaaggctcg tggcaggagg aacagccgtg gattcaaggt ttaaaacaaa 410

<210> 20240
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-C8

<400> 20240

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gctgcattat gtttctgatt tggctcgggc tgcactgctg tgtatgggca cttgcagggc 180
caaggctttc attggttgac gccagtgcct cacatttta 219

<210> 20241

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-C9

<400> 20241

cttactctag tccttttcta gcactttacg gacattgaat atcaatggga agggccaatc 60
ataagcgtaa agtaactcag atataaacga atctgttact cataacaatc acggccccaa 120
gagtgttccc tatgcaatcg tcaacagaca cacttcctta acatgaatgg gtaaccttaa 180
ttccata 187

<210> 20242

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-D1

<400> 20242

accgcttcca catggccgag ccatacacg cgcgtctcct cccgctcgcc ttgcacccga 60
acccaaggcc caatctccac gcgagcggca cagcaggggt gccctggccc ccgcgccacc 120
gccgcgctg cttcgcgacg ccgcccgcgc ggaacgggag ctctcctcgc ccggagatcg 180
actggtgccc ggtgccgccg gaccagcttc ccgtgaacga gtacgaagcg cttgcgggct 240
acctgccctt ctctggggc gcgggggggc tccgcgtcta ctgcgtccgt ctgcgtgctca 300
cgggcgccgg cgtcgagctc tttgtcgggc tcccggtcgc cga 343

<210> 20243

<211> 386

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-D10

 <400> 20243

 gcttcccttc tcggcactta tttcaagtgg tgttacacaa aggccagtgt cagtgaccgc 60
 ttccttgagg cacaaaacca gcgatgctag aaggaagttc ctaaaacttg cgcttgggaa 120
 tatcggagtt ggactgceca ccttgttggg tgtaagaaa gctctcgctg atgagcaagg 180
 aatctcgccc tcgaggatgt cttattcaag gttccttgag tatcttgaca agggtagagt 240
 gaagaagggt gatttatttg agaatgggac aattgctatc gtggaggcca tttctcctga 300
 gcttggcaac cgcgtgcaga gagtccgtgt gcagcttctt ggtctaagcc aggagcttct 360
 tcagaagttg agggaaaaga acatcg 386

<210> 20244
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-D11

 <400> 20244

 ctggacacag gaggaaagag agatgctaag acataaggta ccgttgactg gtctgaagac 60
 accatttcgc gatggatatg ttagagattt agccgaggaa gttctaaaac tggccaagaa 120
 tggattggaa agaagaggat acaaggaggt cggtttcctt agagagggtg acgaagtggg 180
 gaggacagga gtgacacctg ccgagagact tctgcatctg tacgagacga agtggcaacg 240
 caacgtcgac catgttttcg agcacttgct atactgacgt ttagatgta ccctagtaca 300
 aaaatctcat ctttgattca ttcaacgcct tgagtgggag ggcacaggaa cacatctttt 360
 ggtaagttg ctgaccgggg gaacagctac ccggtgctgc gtgcggtg 408

<210> 20245
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-D12

 <400> 20245

gttctgctgt tggtcgaatt ccattccattt ctcccggtgc atcgccccct ccttccttc 60
tctagttccc ttcccttata gtattaaacta cgacgatggt ggtggatgct ggtgttggtg 120
ttggcggcgg cggcggcgcc gggacatgtg ccgtcggagg attcgcagtc tgggacgtgc 180
tgctgtggcg ccggggccgc gccgacgtga gcgcctgcct gctggcgggc accgtctcct 240
cctggctgct cttgtacggc ggctacacct tgggtgcccct cgctccaac gtgctgctcc 300
tgctcctcac cgtgctcttc ctgtgggcca aagcggcgcg cctcctgaac aggccgcagc 360
ctcccgtccc ggagctgcgc gttccgcagc aggccgtgga cgaggcggcc 410

<210> 20246
<211> 392
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-D2
<400> 20246

cggacgcgtg ggttcttttc tagcactttg cggtagattg aatttcagaa gcagaaaggt 60
gggagcatag gcgaaaaata tgaacagatt aagacgagtt catgagtcag aactagcgcg 120
gcgccacgac tggtttcgat tttggtgaga attgggtcgt ttggttggca tggttcaatg 180
aaatagaaac cataagtttt agctcgctcc atgtaaaaga tgtttatacy agctgttaat 240
tctcaaattc caccgtctga gggggtctgg tcgcccattg gcaacacttt caagtttagt 300
caggtggcaa taagctgtgt cctttgggga gcacaggtct gtacaggatt actngtggtc 360
gtgatcagnt ctactgctac ctgaatttca tc 392

<210> 20247
<211> 173
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-058-Q1-K1-D3
<400> 20247

aatccctctc gcctcatccc caccagcgca aagccgtcct atcgctcctgt cgtgagaagc 60
aatggcgggc cgtggcaagg cgattggcgc tgggtgccgcg aagaaggcga cgtcaaggag 120

ctccaaggct gggctgcagt ttcccgtcgg caggatcgct cggttcctca agg

173

<210> 20248
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-B9

<400> 20248

actcgttcga atctacttat cccctaatt ttaatcttta tacctgcttt gtcttttgaa 60
gtgccggggc taattcatca tggatttaat cataccattg cacaaatagg tgttacacag 120
tatgtcagcg acctattact tgacctactg ctataccatc tgtataacca gattgctaca 180
aacaccttga atcgactgga tcctatgaca catgctgtcg gtaatgtgtt gatacgtgcc 240
ttcatcatcg gttaatcaat cattgcttat ggcaacaaaa cctgcactca tactgcaatt 300
gacacgtatc attgacatat ctgggtgttg tatgcactct tacat 345

<210> 20249
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-D4

<400> 20249

ctcgctcgac actgtcacta gctagttgct ctactagagg gcgggtatag agctgcctgc 60
aatccgccgc ttagaaggga ggatcggaag cgacgatgag gtcgtttgct cctgtctttc 120
tgtcggcggt cgtggcctgg cttgagcttg cgggcaccgc tcaaggcggc aacttctacc 180
aggacaccta gatgacctgg ggccattgcc gccgcaaggt aatggaccgc cggcgccggc 240
ttgacctgac gcttgaccgc acgttcggct tcgggttcca gtccaagagc gaggacctgt 300
tcggcaagat cgacatgcag atcaagcttg tgccaggcaa cttcgtggca c 351

<210> 20250
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-D5

<400> 20250

acgaatccct ctccggttat ccccaccagc tcaaagtcgc cctatcgtcc tgctgtgaga 60

agcaatggct gtccgtggca aggcgattgg cgctggtgcc gccaaagaaag cgacctcaag 120

gagctccaag gctgggctgc agtttaccgt ctgcaggatc gctcagttgc tcaaggacgg 180

ctagtacgcc gagcgcgtgg ggcgccgcgc ccctgtctac ctgcgccgtg ttctcgagta 240

cc 242

<210> 20251

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H8

<400> 20251

gcgtccggtc cggattccgg tcgaccagc tacgggcagg gcgacgtgat cgagagcggc 60

gctggctgcg gcgagttcgc tggcaaggac tacacggacc cttccccggc gccgctgac 120

gacgcggctg agctggggtc ctggtcgctg taccgcgccg tgatcgccga gttcatcgcc 180

acgctgctgt tctgtacat cacgggtggc accgtgatcg ggtacaagca ccagacggac 240

gcgtcggcgt cgggtgccga cgctgcgtgc ggcggcgtgg ggggtgctggg catcggtgt 300

gccttcagcg gcatgatctt cgggctcgtc tact 334

<210> 20252

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H9

<400> 20252

ccgaggtcg caagaacgga acctgcccct ggctcaggcc tgatgggaag acccaggtga 60

cagtcgagta ccgcaatgag ggtgggtgcc tgggtcccat ccgtgtccac accgtcctca 120

tctccacca gcacgacgag acagtgacca atgatgagat cgctgctgac ctgaaggagc 180

atgtcatcaa gcctgtcatc cctgagcagt accttgacga gaagaccatc ttccacctta 240

accatctgg ccgctttgtc attggtggac ctacggcga tgctggcctc actgggcgca 300

agatcatcat tgacacctac ggtggctggg gagcccatgg tgggtggcgct ttctccggca 360
aggaccaaac caaggttgac cgcagcggag cctatgtcgc aagg 404

<210> 20253
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-A10

<400> 20253

agttgttata atttatggaa tctaagtaac tagcaaacta attactaacc agtataggaa 60
aatgttgctt gctatcacat tggagccagc aattgtatta acactttggg taggatatga 120
atattagact gtcatttgtc agaacatcag taaggcgtga agaatcagaa gaatattcag 180
tcgaagctgg tgatgaatta acatgccata ttgccatgct acttgaaaca ctggtcagcg 240
ctcgtgcatg tctcaccaac tgcgctgcag gtacctgtgt ccatgaccaa ctacaagaaa 300
gacacgaacg gatgccagtt catcatcacc accgtggaag gaagcaggtg ctaagtgcac 360
atttccgggc ttacatacaa gcattggaga aac 393

<210> 20254
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-A11

<400> 20254

catgagtgga gtcacctgct gcctaaggtt ccctggtcag ctgaactccg acctcaggaa 60
gctggcagtg aacctgatcc ccttcccccg tctccacttc ttcattggtcg gcttcgcgcc 120
gctgacgtcc cgtggctccc agcagtaccg ggccctcaca gtccccgagc tcacgcagca 180
gatgtgggat gccagaaca tgatgtgtgc cgctgaccct cgccatgggc gttacctcac 240
cgnctcggcc atgttccgcg ggaagatgag caccaaggaa gttgacgagc agatgatcaa 300
cgtccagaac aagaactcgt cctacttcgt ggagtggatc cgcaacaacg tcaagtccag 360
cgtgtgcgac atccccccca ggggcctgtc catggcg 397

<210> 20255
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-A12

 <400> 20255
 gagccaagca cccaaggggc tactaccgct gcacgcacaa gagctctcag ggatgtgcgg 60
 cgacgaagca agtgcagcgc accgacgagg acccggcctt cttcgacgtc gtctacctcg 120
 gcgaccacac ctgcgttcag agccagaggg cggcagcgac ggcgggtcgt caggctgccg 180
 cggacgcgca ggcgccggtg tacgacgcca acctcatggt gaagaccgag gggccggcct 240
 tggagccaga gcagcagcgg cggggctggg acgacgcgcc cagccctttt ctcttctcct 300
 ccacgccggc gtgccttgtg caggagcgca gcccttctc cgcgccgtcc acgtccgaga 360
 actggggcgt gtccccggcg acctcggact ccaaccacgt cgtctc 406

<210> 20256
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-A3

 <400> 20256
 gaatttcgag cgtcgcgtac gcacgcgtc gatctcaaag gtgacaacca tctgatcaag 60
 gctttatcgc ggaaggaaag ggcgggacga gcgcaaagt tgcaacgtc actctgagga 120
 cgtatcagct gttactgctg taaagttctg tgctgaacat ccatatggca aagccgttac 180
 cttgctagac actgaagctc agcttatcat ggtgaacgag gattggctcc tacttgcatg 240
 gatctccata tcagtcctgt ttatggacgg agatggcggg atgaaacttg gcggccgtgc 300
 catggttcag aaaggtacag tgtgtggatc cgacactagc atggtgctag acacacagac 360
 cgtctgatca gggagcgtgg caaccaatct 390

<210> 20257
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-A5

<400> 20257

tttccggctc gacccactcg ttcgcttgat cctaaagggtg acgagcttct tatcaagctt 60

tatccatgaa ggaaagggta gggccaacgc aaatgttgca gcgctcactc tgatgacgta 120

tcaactgtta ctgttgtaga gatctgtgct gaacatccat atggcaaagc cgatgccttg 180

ctagacactg aagctcagct tatcatgggtg aacgaagatt ggctcctact tccatggatc 240

tgcatacac tactgtttat ggacggcgat tgcagactga aacttactcg ccgagccata 300

gttcaaaaag g 311

<210> 20258

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-A7

<400> 20258

ctcgatctca aaggtgacaa ccatctgac aagctttatc ggggaaggaa actggaatac 60

gagcgcaaat gttgcagcgc tcaactctgag gacgtatcag ctgttactgc tgtaaagtgc 120

tgtgctgaac atccatatgg caaagccgtt gccttgctag aactgaagc tcagcttatac 180

atggtgaacg aggattggct cctacttcca tggatctcca tatcagtcct gtttatggac 240

ggcgatggcg gtatgaaact tgcggcg 267

<210> 20259

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-A8

<400> 20259

gatgcgtttt agcagacagt ttacagggtta atgctatact ggcgaacctc cagccttgtc 60

gggatgactt tgcgacttga cgcgtccaga tgaataagca aatgactcta actgaattgt 120

ctgctgctat acatgtggat taccgtgcaa gggcaagtaa caatccatcc taccgactcg 180

cagctcatgt tgctgagaac cgcggtcatt cgaaatttca caagacgaag aggaactgtc 240

catagaagaa tttgaacctt cctaatttca aacagactaa taataatgag gaccctatct 300

<210> 20260
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-A9

<400> 20260

gtcggatcatg attgtgaaag ctcttggaat agccttgaaa ctgacctttt ctggcatgaa 60
 tcatctaatt tatccacaaa catgggttgtt caccattgtt gttgttgcatt gtattagtaa 120
 cacagatgaa ctacctgaac aaggctcttg atactttcaa cacagcagtt gtatcaccga 180
 tatactatac aatgttcacg tcactaaciaa ttttggctag cgtgataatg ttcaaggact 240
 gggatcgtca aaatccaact caaattgtaa cagagatgtg tggttttgtt accattcttt 300
 cggggacgtt tcttctccac aagacaaaag acatgggtga tggccttccg ccaactctac 360
 ctgtccggat tcctaaacat g 381

<210> 20261
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-B11

<400> 20261

ctctccccct ccctggaatt gccattccac ctccgctcga attgccattc cccctctctc 60
 tcggcttctc ttggatcgaa ttgttagttt attagagtga agttgtcggg ggaggaggagc 120
 taggcgttag gtgggagcct gcgtgctacg cctcgggaga aggtcaaaaag aaaccgcccc 180
 accaccaacc caggcgactc ccccccaacc caaccaacc cgccattgct cttctttccc 240
 tccccgtcgc cagctgggca gagccgtccc gtccggagcc caaaggcgcc gcctttctctg 300
 aaccggtcc gcggcagatt gatcgattgg ttgttcggtt ccttggtcgg gaatcagagg 360
 aggagcaag agaagagatg tgcccgctgc gggatgatcct catcttctc 410

<210> 20262
 <211> 375
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-B2

<400> 20262

tggcccaacct gccattgtta gaggcggtag cccacaggcg gacccgaatc cagaattcct 60
gaatcctgtc actgctcgaa aatcgaaatc gatccgatct ccgcttgccg tgaagcctga 120
tctccaccgg gttcgcagca tgggcgcatg acctcgatca cgaggaggca ggggagcagc 180
atccacaacc acaagccatg gcggggaggc ccaacatccc cactaacaac tccgccctca 240
tcgcaatcat cgccgacgag gacaccgtca ctggcttctt gatggccggc gttggcaatg 300
ttgatctgcg caaggaaacc aactacctnc tcgtcgacaa caagacgaca gttaaacaaa 360
tcgaggatgc gttca 375

<210> 20263
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-B4

<400> 20263

ggaccctcca caacaatggc caccgtcctg ggcagcccc ggcgcgccggc cttcttcttt 60
tcgtcgctct ccctccgcgc cgcgcggcg cctaccgccg tggcgtgcc tgcggccaag 120
gtgggcatca tgggcgtag cgccagcagc aggcgcaggc tgcgcgcgca ggccacctac 180
aacgtgaagc tgatcacgcc ggagggggag gtggagctgc aggtgcccga cgacgtgtac 240
atcctggacc aggccgagga ggacggcatc gacctgccct actcctgccg cgcgggggtcc 300
tgctcctcgt gcgcgggcaa ggtcgtctcc ggctccgtgg accagtccga ccagagctac 360
ctcgacgacg gccagatcgc cgacggctgg gt 392

<210> 20264
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-B5

<400> 20264

cgtgaagctc aacaagcaca tctggagcag tggatatccgc agtgtgccga ggcgtgtccg 60
 tgtcagaatt gcccgcgaacc ggaacgatga ggaagacgcg aaggaggaac tctactccct 120
 ggtcacagtt gctgagatcc caccggaggg tctcaaaggt ttgggaacta aggttggtga 180
 ggatgaggat taagccctgt ataccatgag agaaatttga gaatgttact tcagcttatt 240
 gttatctact gccaatgact catgtaatag aaggttcgag acttgtctcc tttcaagtgc 300
 ttcgcccaagt ccaaatatcc acatggcatt tcattgtcct acgcattttc tg 352

<210> 20265

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H6

<400> 20265

ggcaaggacg acgtgatcga gacgggtgct gtctgctgcg agttcgtgc caagggctac 60
 acggaccctt ccccgggccc gctgatcgac gcggatgagc tggggtcctg gtcgctgtac 120
 cgtgccgtga tcgccgagtt catcggcacg ctgctgttcc tgtacataac ggtggccacc 180
 gtgatcggtt ccaagcacca gacggacgcg ttggcgtcgg gtgccgacgc ggtttgcggc 240
 ggcttggggg tgctgggcat cgccggggcc ttcggcgcca tgatcttagg cctgggtttac 300
 tgcaccgcgc gtatctcggg gggcca 326

<210> 20266

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F4

<400> 20266

tcgagaagaa cccggagaag ttcttcgtgc gtcctatcac cgaccaattg caggccgtcg 60
 tcggcatctc gctgctggag atcctgtcca gccactcctt cgacgaggtg tacctcggcc 120
 agcgcgacac ctaggagtgg acgtcggacg ccaaggcgca ggatgcgttc aagcggttcg 180
 gcgcgcggct gaccgagatc gagaaacgcg tggaggccat gaacaaggac ccgcgcttca 240
 tgaaccgata cagcgcggtc cagttcccct acaccctgct cttccccaac acctccgaca 300

agggcgataa caccggc

317

<210> 20267

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F5

<400> 20267

cgaaggttgt gaacgccgtg aataaggaag ggggcagctt aggatacttc gacatcttat 60

ctgaccagga agtggggcgg ggttagaaga cgtactacaa ctgggtccacc ttaccacagc 120

tatgctccag atgggggcta agagggggat gcgatattgc actcgagatg gacaaaagcg 180

gacagctgaa gtcgaccctg tcagagtaga cacctagcta gcagtctcgc ttcgctggcg 240

catgtatcac atagtctgca tagaatcagt atactatggc atgcatgcca ttatattgat 300

agatccacga ttgtactaga ctgaagagcc acattggttg aattgtgaca catgtgccga 360

aggaataact cagcttggtt cacac 385

<210> 20268

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F6

<400> 20268

agtgcagatc actgacctcg gcatggccaa gtgcctgatg aacgacggcg tgaccagctg 60

ctcgagctcc ccggcgcgga tgctgggcac gttegggtac ttcgcaccgg agtacgccat 120

cgtgggcaag gcgtcgctca agtccgacgt cttcagcttc ggcgtcgttg tgctggagct 180

catcaccggc cggcagccca tccacaagtc gtcgtcgacg agggccgacg agagcctcgt 240

actctgggcg acgtcgcggc tgcgggacag ccggctggtg gtcacggagc 290

<210> 20269

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F8

<400> 20269
cattgggaaa gcttttgcca gaacagacct gaatgaagt catgaaatat tgctgcatga 60
tgggtataat gaagaccaag aggctaatgc ttaactatct tttcagtcac ggaatgggtga 120
tatatctgaa aactttgggtg gtaaaaagcg tgcaaaccat gcctttaagt ctaaagaata 180
cacgactgca atcgagtgtt actcaaaggt ccttgactca ggtgcaatgg tggcttcaac 240
catgcttgga ccg 253

<210> 20270
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F9

<400> 20270
attcccgacc tgaacgaccc gaacaatcca atcatactct acatatctct actctacctc 60
gtaatcaact cgctgatct gacgtctcta cccagggggg acaatccctt aaaccttcta 120
cacaacctat ctactcatct aaccaacct 150

<210> 20271
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G1

<400> 20271
atcttatatt acccctgcag acaatttct caccatttca atgtacatag ccgccagagg 60
agattcacat cgagcaggaa aacagtatct agacgatcat tacttacata tatactgaag 120
accaattaat acacgaattc gcacccttta aacacgcact acttgtccac attcctgctc 180
attcaccaac acatatgtac gaacaatata cccaattca tatttgcacg tgctagtaaa 240
cacctaaaca catacacaat cacaacactc atgctaatat agcaggtgat attattaatg 300
cttcacttta ctctgatcat ttgacactac atgctcttga aactact 347

<210> 20272
<211> 391
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G10

<400> 20272

gcggcaccgc accgggtact attttgacct cggtcgctca aaatctctgt ctgtcggccc 60

tgcagacccc agacctagac cctccaaaaa caactcaaca acaatgctgc tctcctgct 120

gctgctcgtc gcctactgct ccctgtccca agaggcgctg ctcggcgacg tgccgacgta 180

caacaagctg gtcttcatcc tggcggggca gtccaacatg gccggccgcg gcgggggtggt 240

ggcgaaccgc tgggacggcg tgggtgcccg cgactggcg ccgttccccg cggtgctgcg 300

tctctcgacc gacctgcgct gggaagaagc gccggagccg gttgacgccg gcatcgacgc 360

cgtcaaccac gccgtcgggg tgggccccgg g 391

<210> 20273

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G11

<400> 20273

ggacaagcgc cacctgctat gataccccct cagccaggat ttggtttcca gcaacaactt 60

gtttcaggca tgagggtggt gggctctgat atgccaaatt attttgctcc agttgttcaa 120

caccaacagg gccaacaggg ttcacgcca agtattaagc gtggaacttg gaccaaggt 180

cagcaacctg tgccaccatt tcagca 206

<210> 20274

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G2

<400> 20274

ccgacgcaag ccacgcatac gcgcagctat tgccagagca cactctgttt taagtgcagt 60

acatatcgct gcaggacggg tataatgaag acgacgaggc taatgctgag ctatctctgc 120

aggcatggaa tggtgacata tctgatagct ttgatgttaa caggcgaaca aacaatgcct 180

ttatgtctaa cgaatacact gactgcgaga cgatgttact caacgttcct ctactcacgt 240
gc 242

<210> 20275
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-057-Q1-K1-G3

<400> 20275

gcagaccagg cgtttctcca acttctgtta agttcgagta atggggacaa tagtgaggtt 60
ctgaagcagt ctgctgttga ttacttgaat ggatctgatt atgcatctca gggtcttttg 120
ccaagagaac atctagagaa acaatgttct tatgatgctg cacgacctct gcccttctct 180
agtaatttca gagatgccac tgtcagaagt gttattcctg acccatatgt ttttcaaagc 240
ttcggtagtt catcggaggt gtcctcaata ataccaaata gagatgacat gggtgctact 300
ttacttcaac aaacatcact tggactgcct nctcaatgga tacgaccgtc tccaccaaga 360
cttgaaattt ttgaaaggga gttacagtgg ctgaaca 397

<210> 20276
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G4

<400> 20276

tcggcagcga agatggagct tgcacgggcc aacgcacaca caacacagct cgtggagatg 60
gcgcgggggc taggggtgctg gcgctggacg cgcactgcat cgcgtggcgt ccgggcggcg 120
gctactgaac gcgaaagacg gatgcgctga cactggggg cctgcgccga gctgcatacg 180
tgcggggcag ccgcgcgcc gacgccgact gctgggccga tgcgccagag ctgggaagac 240
cccaagtgct gtgcgtgc 258

<210> 20277
<211> 422
<212> DNA
<213> Zea mays

tctttcaaag aagtgaagtg tactgtgatg gattttcttt ggcagaatac

350

<210> 20280
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H1

<400> 20280

gatatgaatt aagtgaatca gatgaatctg gtacagaaga tgaggagaca acagtcagga 60
aaaatagggga tgaatcattg aagtctgggtg gccaaagatc aagaagaacc tcagcacttg 120
aattggatga tgctagtctc acaccttata agttaagtt taagaggggt aaaattgtag 180
aactcccact agacagcatg ggcccaagga ggctgaaatt tacaagaaag tctgcacatg 240
aagcttcaaa tcgtgaaagc caaccagcta gaaggattta tagaaggaac agcaccagta 300
ctgctgttcc tactgatgtg gaatctctctg gcgtgaaact gagacatcaa gatgcacaag 360
agaagaaaga tgcacaagga ttgttcaata atggaattg 399

<210> 20281
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H11

<400> 20281

atatatcatc actatctagc aatgctgatg gctcttatta gccttacatg ggagataaag 60
ggacagcctg attgtttctag caagcagagg ggggtgcaac ttttcttgcg ctgggcaatc 120
atgcaaggca ttgcaatgca tctacagaat agataccagc ggcaaagatt gcgtactcga 180
atagctctag gaaaggctaa aagaatggat gtcgttgctg gcgaaacagc tgggtgtggag 240
gggcagctct tgctgctata tctgtcctt ttcattattac aggtatgttg cgtgtgcaat 300
tcgaatcatg gcagatccgg gtggtttgtc gaactgag 338

<210> 20282
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H12

<400> 20282

acgtagcctt cttagacaat cgtacttaac cgtcgttcgt gatacgtacc ggggtcttgcg 60
tatggaacat tcaagcggag ggtataccat ctgctgtcgt actggcctta tctacgaggc 120
atggacaatg atgtacgttg tagacactac aggaatggat aac 163

<210> 20283

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H3

<400> 20283

gaagccgccg ccgctgcagt gtccatagcc accgcaggag actgagatgg ggggttggtg 60
caagaccac aagagcaatg cgtacttcaa gcgtttccag gtgaagttca agagaaggcg 120
cgctggcaag acagactaca gggccaggat aaggctgatt aaccaagaca aaaacaagta 180
caatacacc aaatacagat ttgttggtgc attaccaac aaggacatca cagcacaat 240
catctctgct agtatagcag gtgatatggt tcttgcttct gcttactcgc atgagttgcc 300
acgatatggt cttgaagttg gtctgaccaa ctatgcagct gcctactgca ctggccttct 360
gttggtcgc cgtgtgctca agaccctgg ttagataag gaatatgagg gcaatgttga 420
ggccactggt g 431

<210> 20284

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-057-Q1-K1-F3

<400> 20284

atcttttctt ggacgcttcg atgtttgtac taaacatata tctaaatttg cagggtggtgc 60
ggcttcaggt ggagcaagaa agttgtatgt tggcaatctt cactcaaata ttactgaaga 120
ccaattaaga caggatattg aaccatttgg gcaagtggag cttgtacagc ttcctctaga 180
tgcaatgact ggactgtgca aaggttatgg ctttattcag tttgcccggc ttgaagatgc 240

aaaagctgca cagagtttga atgggcagct tgatattgcc ggcagagtta ttaaggtttc 300
agctgttact gatcatgtgg gagtgcagc tagtggagct actactggag atctagatga 360
tgatgaangt ggaagcttgg cgcttaatgc aagcttc 397

<210> 20285
<211> 228
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-057-Q1-K1-H4
<400> 20285

acggttgacc gcgccgacag tcgccgtatg tccctcgtat tcgcaccgcg cgctgttgctc 60
catccttgctg cagcaaaaat gactgctggc tacattgctg gctcactggg cggatccttt 120
ggcattgcat acctgtgtga cacatttatc tctgacaaga aagcatttgg aggtagcacc 180
ccaagactg tttctgagaa ggagtgggtg caaggcacag acaccaag 228

<210> 20286
<211> 404
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-057-Q1-K1-H5
<400> 20286

accataccct aactccaaat tcccaattgt caatctctac tcagagttcg agtgaccgtg 60
tacgcgcgcg gaaagggcgg gaaggcgcta ggcaagggcg gcgcgaagcg tcaccgtaag 120
gttctccgtg acaacatcca gggcattacg aatccggcga tccgtacgct ggcgagaagg 180
ggcggactga agcgcattctc ggggctcata tacgaggaga cccgcagcgt gctcaagatc 240
ttcctagaga atgtcattcg cgacgctgtc acctacacgg agcacgcccg gcgtaagacc 300
gtcaccgcca tggacgtcgt ctacgcgctc aagcggcagg gccgcaccct ctacggattt 360
agcggctgaa gggtcacggg tgtccgacaa ctgctgctgg tcgt 404

<210> 20287
<211> 339
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-057-Q1-K1-D8

<400> 20287

cacagacaag tggtttccaa agccaagtgt gtgtactagc aaccagctag ctcgggcggc 60
agcaggcagc catcatgtcg gaggagaagc accaccactt cttcaaccac cacaagaagg 120
acgaggagca gcccgcgggc gagtacgggt actccgagac cgaggtggtc accgtcaccg 180
gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac aagcagcacc 240
tcggcgaggc cggcgccatc gccgnccggc ccttcgcact ctacgagaag cacgaggcga 300
tagaaggacc tcgagcacgc gcacaggcac aagatcacg 339

<210> 20288
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D9

<400> 20288

gagccagcca gccagccagc cagccagccg cttgggcgcc atctctctag agcgtcgtac 60
cctcgaagag agatccggcg cggcccaata aacacccggc tcactacaga ctgcgagatg 120
gccggcctca ggatgaagtt cgtcgccgtc gccgccatgg ccgtcgcgct cgtggcgctc 180
gccgcagccg ccgaggctcc cgtcccggct cccgcgttcg acgcc 225

<210> 20289
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E1

<400> 20289

aagtaatgac tagtgtgcgt gtgtctattc ctttctatgg gtttgtgcgt gatggctggt 60
catggtggtg gtgggtgtgg gtgtgcttcg gtgcgtattg ctgcctactg tgctggtggg 120
tttattcggc aaatggatga ataggttgca gtaacaataa ttatgcatcc agaaagaact 180
gcaaaaagtg cggcttgccc aacgaggaag catcaatgcc aacattgcaa atggcacgga 240

tgactatgcc aacttatgca acttatattg caagactaca aagccttgct gcttctgctt 300
 ctgcctataa gatgaacttt gggatggctg ccaattcacc tttgcagcag caactacttg 360
 caaatgcaaa ctggccctat gggatggctg gtagatatgg gatgcaatct tctggt 416

<210> 20290
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-057-Q1-K1-E10

<400> 20290

gccggtgtca atggcagcgt cgtcactgag aaggtecttt ctaacgataa cttgaagtat 60
 ggttacaatg ctgctactgg acagtacgag gacttgatgg ctgctggtat cattgatcct 120
 acgaagggtg tgagatgctg tttggagcat gccgcgtcgg tggccaagac cttcctgaca 180
 tctgatgttg tggtcgtcga tattaaggag ccagagtctg cgcccccttg taacccgatg 240
 gacaactctg gctatggata ctaatggaga tgagatggcc aagccgcatg ggaagaaaagg 300
 tgatcaccat tttttttttg gtaggcgaga agagtcgggt cgaggtagtt tttcatcatc 360
 agattaaaaa agcgagtttg ttgtacgacc attangcgaa a 401

<210> 20291
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-057-Q1-K1-E11

<400> 20291

gaaataaatg actcgtgttt gttctttatt cgttttgtgt tggtatcggt tacagttgga 60
 gcctattgga taacattatt gaacagtgtg ggattgtgtc actttatatc tggaatTTTT 120
 ttttctggta gttataaaaa gtaaccatct tggtagttga tacaaccaga tgccgcgttg 180
 tatacgggct gatggtcctt tggttaactt tcggcattac atttaacttt cgnggttaat 240
 tgtccaggag gaaatagagg ttgagggaaa gttattacgt gctggaaaat cagtcggtgt 300
 cgtctccgta gatttcagga agaaaaagac agggaaattg atggcacagg cccgtcacac 360

caagtatctt gtggcatcaa gcaaactgtg aggcgc

396

<210> 20292

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E12

<400> 20292

gcagctgttg atgcagttaa agaaccattg gaagcacaac tgtgttcaac aaatactgaa 60

gcagagaagc taagagatgt tgtcaaagca cttgaggatc aagtagaaaa agagaaggca 120

ttgtgcgaag agcttgcagc aaaggtagag ttgaaaacta aagcagcaag aactgctgag 180

gctgttcaag aatccttgga ggcacaactg tcttcagcaa atgctgaaat acagaaactg 240

gaagagatca cgaaacaact acagagttag ttagaaaagg agaagacact tcatgaagag 300

ttctcagcac agttagagat gaagattgaa gcggagagaa ctctgttctat ggaatctgct 360

aaagaatcat tagaggaaca attccagtta gtgaactcag aaacag 406

<210> 20293

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E2

<400> 20293

aagatttgag ctctccattt gatcacacag taatatccaa tgcaaatgaa atgcagtgca 60

acagaaatgc agatgacaat ggtttacctg aggattcaag caagcactact aaaagaacag 120

gtcgcaaggt gggcatttta agtcactgcc caaagcgact agttgctctc aaagtcattg 180

atttcggcca gagattctat ggtttttctt ctgaaggtaa cattgaacca acagttgagt 240

ctgagatatt taaagcactg gaaagagcaa aactgatggt tgccaatagg aaagaatcat 300

gctactcgag gtgtggaaga actgacaaag gagtttctgc tactggacag gtgatttctt 360

tatatctgcg atcgaacata aaggatgttg ggggggacat gttagatgaa agatccgaaa 420

ttgattatgt gaag 434

<210> 20294

<211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-E3

 <400> 20294

 aaacgcccatt cattccagat gagatcacca gtgtctacca caacgactct agtgaaccat 60
 gcaaaaggag cgtccaagtc gtttgacgga ggctgtagat cacttgaacg ctataagggc 120
 catgtaaacy ggaatggat gaacgtatct accgattcca gtgaagataa agattcaaac 180
 aactcagatg agaagtgtaa cgagtttgca tctgctgagt cggaggactc ggtgtcaggt 240
 gttctatatg atatgttgca aaaggaggtc atttctctaa ggaaggcgtg ccacgaaaag 300
 gatcagagcc tgaaagacaa ggacgactca gttgagatgt tggcaaagaa agtagatact 360
 ttgacaaaag ctatggagtc agatgccaaag aaatcgaagc gcgagct 407

<210> 20295
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-E4

 <400> 20295

 gaaagagtgc aagaaaggag gacggtgctg acgatgatgg cgataagcca ccccatgatt 60
 cgccacatca ttccgtcgcc tccggggcct gcgcgctagc tgctagaagg gcctcgccgt 120
 ccgtcggtgt ggtggtggtg gtgtgcgcgg agcgggaggg gaggggaggg gattcggtcac 180
 tgcgccgaca caatgccaca ggaccagtga gctgccttcg ggc 223

<210> 20296
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-E5

 <400> 20296

 gcaatcagat gcatgtcatc caagctcttt gttggaggga tttcttatca aactgatgat 60
 cacagtctca gggacgagtt tgccaaatat gggcaagtca ttgaagctag gattatcatt 120

gaccgtgagt ctgggaggtc tagaggtttt ggctttgtaa cttacacgtc ttctgaggag 180
gcttcagctg ccattactgc cttggatgga aagactctcg atggacggag catacggggt 240
aatcatgcta acgagaagac cgggtggcttt cgtggcggcg gtggctatgg tggcggcggc 300
tatggtggtg gtggaggcta tgggtggtgct ggtggaggcg gtggatacgg tggcggccac 360
tatggtggtg gtggtggcag cgggtgat 388

<210> 20297
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E6

<400> 20297

cagaccatca aacaagtgcc agcgccctct cgcagtcgcc gtattggaga gcaccttcac 60
catgatcaag cctgacggcg tccagagggg ctcattggt gagatcatca gccgttttga 120
gaagaagggc ttctacctca aggccttgaa gcttgtgaac gtggagaggt cgtttgctga 180
gaagcactac gcgatctcg cctccaagcc cttcttcag ggcctcgtgg actacatcat 240
ctctggccct gtggtggcca tgggtctgga gggcaagagc gtcgtcacia ctggccgcaa 300
gatcattggc gccaccaacc ccctggcttc tgagcccggc accatccgtg gcgactttgc 360
tgtcgacatt ggcaggaatg tcattcatgg aagtgcagc attgatagtg ct 412

<210> 20298
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E7

<400> 20298

agttcatccg cagcagtggg gaatatgaca agaattggctt cgtggaggac acagataagc 60
ccttcgagaa gctgtccacc atcagtactg gaattaatat gttggaagag gatggagaag 120
ttgatgcata tgtatcccct cataaggaga tagaccaca caatgcagca cccaagcgaa 180
agaaagccag gttcatgata ccaaagagtg ctcaggtgga cagtgaagtg cgccgcgagc 240
tgcaagagct catggacgct agggaggcag gcatgttctt catcctgggg cactcgtaca 300

<210> 20299
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E8

<400> 20299

cgaaggttgt gaacgccttg aagaaggaag gggtcagctt tgggtccttc gacatcttat 60
ctgacgagga agttaggcaa ggtttgaaga cgtactccaa ctggcccacc tccccccagc 120
tctactacaa atcggagctg attgggggat gtgatatcgt tcttgagatg gagaagagcg 180
gagagctgaa gtcgaccctg tcagagtaga cacctagcta gcattcttgc ttcgctggcg 240
tttttatcac attgcctgca ttggatcact ctactctggt attcatgcca ttatattcat 300
agatccacgt tgggtacttgt ctgcagtgcc acattgctag aattggga 348

<210> 20300
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E9

<400> 20300

ggcgcggcgg aagtgaaggg caagcgggcg gtggatctca agatgggatc catgacgcgg 60
gacaaggtgc aggacaagtt cacgcagtac tggtccttct ttcgtcgacc caaggggacg 120
gtcaacaagg cggcgctccgc cgaaaaagtg ccagccttcg tctacacctt ctacaaactc 180
gtggccgaca tctacgaatg ggggtggtgc cagtc 215

<210> 20301
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F1

<400> 20301

cagtgttgaa aagataattt ctgctgctgc tttggttgag aaggaaaggt ctagaagact 60

cagcacctcc attcttaatc aagttattag agaagctata gcattcaaat caccaccaag 120
aacaagaggt ggcaaaagag gtcgtgtcta ttatacaaca caggctgccg tcggtccacc 180
aacattcggt ctatttgtaa atgatgcgaa gctcttcctt gacacgtacc ggcgttacat 240
ggaaaagaaa ctccgggtcag acgccgggtt tccaggcacc cctattcagt tactggggcg 300
tagcagaagg cggccagaca aacgaggtaa atctgctgac agtagagcgc agagcccaag 360
aaccctaac g 371

<210> 20302
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F10

<400> 20302

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tcttttacca gacaatgatg aattgctgtt tgaattaggg tccatttggc cgcacacatc 120
tctggctctg ctggcagctg tggcctgtga gcagatggag gtgcaccaag tgcatatggg 180
cgtctagcag aggatctgga gccttaggtt tatgtaagcg gagccactct tgggtgctccg 240
tcgcccttct ggcttggttag gattgcctgc acggagcctg cccaaacacg atcttagatg 300
tagatcatag atgacctact tggggttcca catgagtgat tttaacaacat tttgaactag 360
attgtgattt attgttcttg acttcaattt tcaatattta tatatc 406

<210> 20303
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F11

<400> 20303

gtaattcccg gcccgaccca ctcttcttat cagctcttac ttacctttgc tatgaatctt 60
acatactcaa taacatattt ataagacaag atttttacca tggctttcct gcataacaat 120
attaacaata atacactcat tctctttctt catattctct t 161

<210> 20304

<211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-F2

 <400> 20304

 tcgagcgagg agagatcggt aggcaaactg gtgatgcact gagagcaaag ctccatcacc 60
 ttggcaggct tgtgtcactt gagatgggga aaattcttcc tgaagggatc ggtgaggttc 120
 aagaaatcat cgacatgtgt gattatgctg tggggctaag tcgccaacta aatggatcca 180
 ttataccatc tgaacgacca aaccatatga tgatggaggt gtggaatccc cttggagttg 240
 cgggtggtat aacggcattt aatttcctt gcgctgtgct tggttggaat gcttgcatcg 300
 ctttggctcg gggaaattgg gtcgtctgga aaggttctac aacaa 345

<210> 20305
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-D7

 <400> 20305

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 ggcccgccgc cggcgccggc gccgcgcgac gacctgccca tcgcccggaa ggcgtcgctg 120
 cagcggttcc tggccaagcg caaggaccgc ctctgtggagc gcgcccccta cggccgccccg 180
 tccccatccg aggaggcgga gaaggcgaag ccggcctcct ggctcgggct cggcgggcacg 240
 gacgccgagc gcctcaacat cgcgctgcga tttggatctc gggtgctacc caccgggac 300
 gaccggtggc gatttgattg gctgggttcc tggcttcttt tgggtcttgc tggattgggg 360
 ttggtgtgga gatcggaga 379

<210> 20306
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-B8

 <400> 20306

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 tgggagacat ctttgcgag ctgccaaacc tcaaggacaa cctctaccga tacttgagca 120
 cgggcacatg gcctgacaca cagaacgacg tgggtggttct gtcgggggac ctacaatggt 180
 acaatatacc acctgcccatt gctgtggctt ctgccgttga gaacggcata ccgagagtcc 240
 ctgccggcgt atctatgctc ccaactgcttc gcctgctgct ggcaaccaca cacgttgtgg 300
 gactgatgga gategaaaag gtacagattg tcatggaatg ctaaaggatg agcgctgaaa 360
 attc 364

<210> 20307
 <211> 408
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-057-Q1-K1-B9

<400> 20307

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 ttcgctcctc ctctccaag ccgcaactgg tcccgccggc ggcggctcctg gcagcggcgc 120
 tgctgctgct ggcggcgagg ggcgggacgg cgtcngcggc ggtgagctgc ggcgaggtga 180
 cgtcgctcgtt ggcgcctgct ctcgggtacg cgatgggcag cgcggcgctc ccctccgcgg 240
 cgtgctgcag ggcgggtgcgc tcgctcaaca gccgcgcgtc gtcggcgggc gaccggcagg 300
 ccacctgcaa ctgcctcaag agcatgacgg gccggctcgg cggcggcgtc agcatggcca 360
 acgccgncaa cateccccgc aagtgcggcg tctccgctcg cgtgccca 408

<210> 20308
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-C1

<400> 20308

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 gattagcgtc ggcaccgtgg aggcgtcaa ggaccaggcc ggctgtgcc gctggaacta 120
 cgcgttccgg caggcggcgc agcagctgca gcagcagcgc gccaggaggc cagcatgcgc 180

gagcggctca gtcggccccc gcagcggcag cggtagcgcg cacgcgccgc ctgcttctgc 240
 tcgctcggtc tgcgccgtgg cggctaggag gagagccagg catcatcatg aggaggagct 300
 ccggacggtc atgtacctta actactgggg tcctaacaac ttgctaccaa ctaccagt 358

<210> 20309
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-057-Q1-K1-C11
 <400> 20309

cccacgcgtc cgggggccttc gcggggagct cttgccctgc ttctgctcct gttcgtccac 60
 ggaggccagc gagcagcaga ggccggcggg gacgcgttcg tgagggtcca gggcaccgcg 120
 ttcgtgcagg acggcaagcc gttcttcgcc aacgggttca acgcctactg gctcatgaca 180
 ttcggcgccg accccgcgcg gaggggcaag gtcacctcgg cgctcagcca ggccgtcggc 240
 gccggcctct ccgtggccag gacgtggcg ttcagcgacg gcggctgcgg cggcggcagc 300
 gcgctgcagt actcttcgg ccgctacaac gagaacacct tccaggggct ggatttcgtg 360
 ctgtctgang caaggaagca tgggattaag atgattctga gcctcg 406

<210> 20310
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-057-Q1-K1-C2
 <400> 20310

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 tacctctttg ctggtgttgt ggatggacgc aacatctggg ctgatgatct tgctacatct 120
 ctcagcactc tccagtctct tgaggctgtt gttgggaagg acaagcttgt cgtatcaact 180
 tctgtctcgc tcatgcacac cgctgtggat cttgtgaacg agactaagct tgacagcgag 240
 attaagtctt ggcttgcttt tgctgccag aaggttggtg aggttgatgc tcttgctaag 300
 gcattggctg gtcaaaagga tgaggcttac ttcgcagcaa atgctgctgc tcaagcctcg 360

aggaaatcct caccctgtgt gaccaatgaa ga

392

<210> 20311

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-057-Q1-K1-C3

<400> 20311

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actcggggcg gttgccgggc cgggggtccgc gatcgatggc tgcgcggcgg agcaggggct 120

gggcgcgcgg cgcggcgggc ttcgcggccg tggcgctggc ggtgggcgcg gggcggaggt 180

acgggtggga cgggtgcctcc gcggtggcgg cgttccgcga ggcccagggc gcgctggggc 240

actgggcggc gccggcctac gtggccgcgc acgcgctcac gcttgcgctc tgtccgcctt 300

acgccatctt cttcgagggc ggcgcgcgc tcattctcgg cttcctgcca ggcgtcgcat 360

gcgtcttctc cgccaagtcc ntcgggcctc gctctccttc tggatcggca gggcaatttt 420

c 421

<210> 20312

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-057-Q1-K1-C5

<400> 20312

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gctttccaac aagtggcggg aacatttttg tggcgatcat ccctattttg ttggggctta 120

ttgcctgctc tggatatcagc acgaattaac tagcttttgc cacaagcttg gtgttagttt 180

gtgaggggtga ataggccagt gaaattgttc tgctgcttag catagttgga tgccaattga 240

tctatagggt tagaatgcat tttagctttt cctttgctaa tcaaattgcc aactgctaata 300

cttgatcctt ggctgttgat gcacttttct gctcgatgca tgcaaagaga ttatttcatt 360

tatagcacan attaattgga agcagcagct ggttgcttct tcaacatgcg cattc 415

<210> 20313
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-C6

 <400> 20313

 gtaacattat aaagcatttt gaagttctat tgtgggttca tgtgtcaaga gaatttgctg 60
 ttgaaaagct tgtggagaag ttgtttgaag ccattgctgg tgacatgtct gaccacctcc 120
 cattgcagca tgtgagcaga actatctcag acaagttgca gaagcagtgg attctagtta 180
 tgcatacgac ctaccattct tgtctaagga agatagctgg aaagtgttcc aacaatgttt 240
 tggaattgcc atgaaagctc tagaccctga atttccaaca atgttttggga atgaaaggaa 300
 ttgaagaatg gcagtcata tgcaatagta atttattaga tgtccaggat gacgaacata 360
 gagtatttgc atgcttgtgg ttgaagtttg ttcatttacc g 401

<210> 20314
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-C8

 <400> 20314

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 tggccgctcg ctgctgcggc tcccagccgc agctggctgc ggcggcggcg gtctggcgag 120
 cggcgctgct gctgctggcg gcgggggccc ggacggcgtc tgctgcggtg agctgcggcg 180
 aggtgacgtc gacggtggcg cctgcctag ggtacccgat gggcagcgcg gcgtcggcct 240
 ccgcggcgtg ctgcagcggc gtgcgctcgc tcaacagccg cgcgtcatca gcaacggtgc 300
 ggcggggccac ctggaactga ctgatgagca tgacc 335

<210> 20315
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-C9

<400> 20315

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tccagtgtct tttgtgacac gacctgcttg caggcgctct ccaaaaggat ccactatggg 120
aagtttgtgg cagaggctaa gtttcaggag tccccggaag cttacatgcc agccataata 180
gctcaggacc gtgatcaact catgcacctt ctcacatatg aaacgggtgga gcgtgctatc 240
gaacacaggg tggaagccaa agccaagatc ttcgggcaag aggtgaacat cgggtgtggag 300
gacaacggca gcccaccggg gtacaagatc gttccgagct tggtcgccga gctgtacagc 360
tacagaatca tgccgctaac caaagagggt caaatcgctg atttgctt 408

<210> 20316

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D1

<400> 20316

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ccttaaacia aaaggtccat atgtctccga gacaactcta accccgccgc cttctatatc 120
cacacagtgc agcacctgat aaaaaggtgc atgacgttcg ggatgagcat gtaggagtgc 180
a 181

<210> 20317

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D10

<400> 20317

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gtttcagatg atttggttgt gggcattatt gatgaagcta tgaagaaacc ctcattgccag 120
aaaggtttca ttcttgatgg ctttcctaga actgtgactc aagcacagaa gcttgatgag 180
atgttggaag agcaaggtgc caatgttgac aaagtctga actttgcaat tgatgatgct 240
gtattggaag aacggattac tggtcgttgg atccactcag ccagtggtag gacttaccac 300

tcaaaatttg caccttcaaa gtcttcaaga attgatgatg taact

345

<210> 20318

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D11

<400> 20318

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aagcttccaa catgggggga agttgttatt gccctgttcc tcttgctttg ttaagccttc 120

tgttcctttg ccaaccggcc ggccggcgtc aactacgggt cgtggcaaag cgcccacgcc 180

acgttctacg gcggcggcga cgcgtctggc acgatgggag gcgcgtgcgg ctacgggaac 240

atgtacagca cgggggtacgg caccaacacg gcggcgctga tcacggcgct cttcaacgac 300

ggcgccgcgt gcgggtcctg ctacgagctg cgctgcgaca acgacgggca gtcgtgcctg 360

ccgggcacca 370

<210> 20319

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D12

<400> 20319

caatggaaag gtcgctgatg agtggacatg cagagtgcgc ccctacgtca tgctgacgat 60

caccatccct gggatcagaa accattcatg gtattccttc tccataataa cctcatgagc 120

aatgtattcc agaattccca 140

<210> 20320

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-057-Q1-K1-D2

<400> 20320

cgctccctc tctccctccc aactccacc acccgcgccg ccgctccta ctccgccccg 60

gccctctga tccggaccga ggcgcggcca tggcgctcgc ttctgacgag ttccggcgcc 120
 ccttcatcat cctgcgggag caggagaaga agacgcgcct tagggggctc gacgcgcaga 180
 aggccaacat cgctcggcc aaggccgtcg cgcggatcct ncgcacgtcg cttggacca 240
 aaggcatgga taagatgctc cagtccccg acggcgacgt catcatcaca aatgatggag 300
 cgaccatcct ggagcagatg gatgttgaca accagatagc aaagctgatg gtggagctgt 360
 ccgtagtca agactatgaa atcggggatg gtaccaccg ggtggtagtc at 412

<210> 20321

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D3

<400> 20321

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 tgttttttgg ccgatcagtt tgcacgatc ctattaaatt ctgaacaaca ggtatttata 120
 tgcatttat tcaaatttaa actggcattc tctacattat gcaaatatgt tgg 173

<210> 20322

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-B6

<400> 20322

tcgatatggc cggccattgt acatcatata ttgcttaca gaagaagtgc atccttaatt 60
 atgacactgg gatgggattc caccttcacc attttatgg ggtttcccta gactagacac 120
 actggatgac tgaacacgac ttagagagca gcagtaaact tacagctgca ttttgttata 180
 ttttttggtc attttttttt ttacttgctt gctatacaaa aggaacttct acagttgagc 240
 cacactatcc actagctcga accaccgtta cttcgacttg aaagagcaga ccacgagtcc 300
 acgacagcgg cggcagccag gagcaaggct gcaagagggg cagcagcctt ccgttctaga 360
 tcgcga 366

<210> 20323
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-057-Q1-K1-D4

 <400> 20323

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 ctggcaggca cactcctggt acattcacca accagttgca aacctccttc agtgagccac 120
 gccttcttat cctgactgac ccgaggactg atcatcagcc cattaaggag tctgcgcttg 180
 gaaacattcc caccatcgcc ttctgtgata ctgattcccc tatgcgctat gttgatatcg 240
 gcattcccgc caataacaag gggaaacaga gcattggttg tctgttctgg ctgctcgccc 300
 gaatggtcct ncagatgcgc ggtacaattc ttccaggaca caagtgggac atcatggtag 360
 atcttttctt ctacaga 377

<210> 20324
 <211> 72
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-D5

 <400> 20324

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 tactttttgc cc 72

<210> 20325
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-057-Q1-K1-A10

 <400> 20325

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 gagccaccat ggggtggccag atgccggacg ccgatgggaa ggcccgcctcg gcggactcct 120
 cgtcctctta cgggtaccgc ccgtcggcgc cgtcgcagca ccagtacggc acctttggcc 180

ccccatccgg agcctccggg gagtttccgc agccggcggt cgggttcccc cagccggcgc 240
 cgtcgnctgg gatgcagcac taccgcagc cttcttcggc gtcgtatgcc gtctaccac 300
 ccccgagc 309

<210> 20326
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-057-Q1-K1-A11
 <400> 20326

agcttctgtt tggctgttgc cttgcgggtg gcggctgctt tggcgctg cgcagtgcgc 60
 tacgtccgtg cgtcgaccgg aaggccgtcc cctggccctt gtcgtcgtc ttctcgggc 120
 gtcgtctta ctccgaacgc gcgcggggcc cgcacctgt tgttctctg gaggagcgcg 180
 cccggcgggc aggcgacgca ttccagcgga ggcttgagga agaatgcgag cgaccgggtg 240
 atccccgtcc atccgtcccc tgctactatt ccttgggtcg ggcgctcgtc atccactctt 300
 cctgcagccc tccatctgat ccccgtaga ccgttcctg ctgctcttcc tgggtgctcg 360
 ctgctacagt gtcggaccc tgctgcagt ctgctcagtc gcgt 404

<210> 20327
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-057-Q1-K1-A12
 <400> 20327

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 catccccaac tgcattgtgc tggacaaggt ggagtcgtc tcgagcaact gcgaacgggtg 120
 cgagtttctg tatcattcgg acccttctc cttccaatgc cgagacatct tccacggcta 180
 tcttggctcc aagtgcagga catggatcag tacgagcaac tagctcagct cagctacttg 240
 ctaaaagtag cgtagcgcag cgcgcgcggc tacttgctag tatacgtacg ttcacaaatt 300
 aaaataaaag tggctagcgt acaaagctaa catctggttg ttcgtcccga catggacgat 360
 tagcctagct cgatc 375

<210> 20328
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A2

<400> 20328

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gcagcctcaa acaggggtgg tgaagtggc tatgagtatg agacttcatg cataccaaga 120
cacatgcttg gcaacaaagt cgcctatata caaaaccag ctatagataa gacctgcaca 180
tggattctca aggttcctag ggatatgaag caccaatct acgtatatta ccagcttgac 240
aagttctacc agaaccacag gaggtacgtg aagagccgca gcgacaagca gctgagagat 300
cccaaagagg ccaacagcac gcagcagtac tgcaagcccg aagctaccac cgagcacggg 360
agcgccgtcg tcccctgcgg gctcgtggcc tggagcctgt tcaacgacac ctaca 415

<210> 20329
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A3

<400> 20329

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gctccggcgg ctccgtctgg gcaccggcgc cgcctgtgag gtgggccctg ccgacgagga 120
ggcagtgatg agggcgtacc acgagcgggt ggaggaccac tacaacaacc gcgtgtaacg 180
tccgttccat tgacaaggag gacctcatcg tctgtactga tctggtcatt acgactgcct 240
gtggcgacgt catgaagact gaaatacgt tcaacgtgga ctccagtaaa agcggctact 300
cctgcattat gaccatagga tgatgcttcg ccataacgtt attgtacgaa gctactgaat 360
gggtgcaggg aaa 373

<210> 20330
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A4

<400> 20330

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agcaagaccg cgccagggcg gggagcttcg tctccctggg gggggcacc tcacaaaaaa 120
ccacctgcta aaaaaaaaaa aaaaaaaaaag gtttcctct taaaaa 166

<210> 20331

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A5

<400> 20331

attcgggcga ctccaggttc gtgggctatg ctccgcgcg aaggtaggca gtcctggcc 60
cggtgtctcc cgcggtggg tctgggcacc ggccgcgcg gtgaggtggg ccctgccgcc 120
gcagctacag tgattaaggc gtaccacgag cgggtgtgg accactacaa caaccgcgg 180
aacgtccgtt ccttttataa aggagacccc aacgtcggta ctgggctggg cgccgcgcca 240
gactgtggcg acatcatgaa 260

<210> 20332

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A6

<400> 20332

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gacatgtttg gcacttttgg ttccctggct ggtaccatct gtgacaaatc cgctcgct 118

<210> 20333

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A7

<400> 20333

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gactgctgcg gcggcggcaa cgtctgccat ggacgatccg gacgtactga actgccgcga 120
catatcttgc tggatcactt ccggagtgtt gctaccgtcg accgccattg tgattgtgcc 180
ggcaccgttc gactagtgca ttaccacat gctgaaccga tcttgacttt accatgcagc 240
gaagcttgag acgtgtgact aggatgacaa tgcggtgacg accagtcgtg tggactgtga 300
actgtcggac ttgtacaata acttcaacag cacactgcac gggac 345

<210> 20334

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-057-Q1-K1-A9

<400> 20334

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tctatggaaa gcctgcaaat gaagattttg aggcagataa tgcccactgg aaacggggtg 120
taagtaaadc gtatgtgaat ggcatgggaa ttgactggtc caaagtgaga aatgtcatgg 180
acatgagagc tgtgtatgga gggtaagtaa atggttttcg tagtttcttg ggcatgttta 240
tttattttatt tatttttggg aattcagatc aactacata actactagtt acccaagctg 300
gcacatagct aacttaaaac ataacactat aacaagcaac ttgtccacca tatgtcatca 360
agcatatntc tttgaaagat tcagtcaacc tggagaaatt atctttattg gtca 414

<210> 20335

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-B1

<400> 20335

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tcgcgcaagg gagaagcatt gagaacaggc ggaccgacga cgaacaaggg tgggtgtacgt 180

acaagacgtg gtggacgagc gagcatggcg gaccttctac aacgaacttc aagatcacgc 240
ctgaaggt 248

<210> 20336
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-B10

<400> 20336

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gctgctgctg gcggcggggg ccgggacggc gtcggcgctg gtgagctgcg gcgaggtgac 180
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gtgctgcacc gaagtgcgct cgctcaacag ccgcgctcg tcagctgcag accggcaggc 300
cacctgcaac tgcctcaaga gcatgacggg ccggctcggc agcaacgtca gcatggacaa 360
ccccggcaac attctcggca agtg 384

<210> 20337
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-B11

<400> 20337

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tgtcctcttc cgtccacgac gacgcctatg agacggccaa gtgggagaag atcacctacg 180
ccgggatcgt gacctgcacc ctctggcgg cgtacaacct gtccaagggc cccccccact 240
tcgatgagcc gccggcgtag ccctatcttc acattcgcaa catggagtgc ccatggggcc 300
ctgatggctt gtttgagacg aaggaccacc actgagccct gattagcaca ccttcaggag 360
ctggtgcacg cttaaaagag ttatatggtt gtttcagtga t 401

<210> 20338

<211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-B12

 <400> 20338

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 cgcggtggagg ccgagctctc cgggatctgc gcggggatgc tgcgcctect agacgagcgc 120
 ctcggtgcctg cggcgggcggc cgtggacgcc aggggtcttct acctcaagat gaaaggggac 180
 taccaccggt accttgccga gttcaagacc ggcgccgagc gcaaggacgc cgcggaactct 240
 acgctcgccg tctaccatgc cgcgcaggac atatccgtca aggagctgcc gaccacgcgt 300
 ccgatcaggc tcgggctagc actgaacttc tccgtgttct actacgagat cctcagctag 360
 ccggaccgcg cctgctcgat ggccaagcat gccttagac 399

<210> 20339
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-B2

 <400> 20339

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 cggagatgct aaagtttgtt acatggatga gccaaagcacc ggattagacc cagcttcgag 120
 gaagagtctg tggagcgcag tgaagcaagc aaagcaggat agagcaatca ttctcaccac 180
 gcattccatg gaagaagctg aaactctttg tgacagactg tgtatcatgg tcgatggaaa 240
 gctccagtgc ataggcactc ccaaagagct catagctaga tacggagggt actacgtgct 300
 gacgatgacg aactgccgg agttcgaaca agaggtcgaa gatctggtgc gc 352

<210> 20340
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-B3

 <400> 20340

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 aatgcagggga ctaaaaatta gttcttgga ccaaataggt ctaacactct aaaaggaaga 120
 gctgcagtgt tttctagaaa tgattgtgta cagaatagtc actgctgtaa agtgggttca 180
 taccaatttg atacaacatt caccttcaca aagaaaattc agatgacatg taagattatg 240
 cctgacagcc tgaggaggtc tttcaaaaac caatctcaca actgctgtct gacatgtcct 300
 ttcattactt aatatgtgtt cccttgctgc tgtagaaaaa ctacataaaa gaagaaacga 360
 tagaaaggat gaggttagat gaagagggtgc ttatgggatt tcttcagga acacatcaac 420
 gtga 424

<210> 20341
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-057-Q1-K1-B4
 <400> 20341

tctacgcttt cgggtggtttc caaagccaag tgtgtgtact agcaaccagc tagctcgggc 60
 ggcagcaggc agccatcatg tcggaggaga agcaccacca cttcttcaac caccacaaga 120
 aggacgagga gcagcccgcc ggcgagtacg ggtactccga gaccgacgtg gtcaccgccca 180
 ccggcgaggg cgagtacgag aggtacaaga aggaggagaa ggagcacaag cacaagcagc 240
 acctcggcga ggccggcgcc atcgccgtcg gcgccttcgc actctacgag aagcacgaag 300
 cgaagaagga ccccgagcac gcgcacaggc acaagatcac ggagg 345

<210> 20342
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-057-Q1-K1-A1
 <400> 20342

agttgctcaa gatgtaattg cttcgattca tgggtgtgatt tacagcatcc gtgagagtat 60
 caagttcata aaagcttctc caagtcgtga ggagaagttt gctgagattg ctctgcagct 120
 ggagattccc agtaccaaga ctctttgttt agatgttaca acccagtgga acacaactta 180

tctgatgcta ctggctgcct tggactataa gcaggctttt gctacactgg agacatgtga 240
 tgataattac aatgaatctc cttcagcaga ggactggaag aaagttgagg ctagctgtaa 300
 ttacctgaaa ctgctatatg actctgcaca tagtgtgatg gcttcagcga accctactgc 360
 aaacatcttt ttccatgaag cttggaaaat tc 392

<210> 20343
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-057-Q1-K1-B5
 <400> 20343

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 atcgagggag ggcacgcaga cgctgaggag ggaggatgag tctcttcggg cttggacgga 120
 accagaagac attccgcccc aagaagagcg ctccatcagg cagcaaggga gcacagctcc 180
 gtaagcacat agatgccact ctccggcagt gaaaccttag ggaagctgtg aggttgcttc 240
 ctggagagga tatcaatgaa tggcttgctg tcaataccgt ggatttcttt aaccaagtta 300
 atatgctgta tggcacgctc acagaattct gcacacctga gagctgcccg acaatgacag 360
 ctggcccaaa gtatgagtac aggatggctg atgggtg 396

<210> 20344
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-C10
 <400> 20344

atcttctttt gcgtcgccag tcgagcttca tcggtcagac accatttgca agcttaatgt 60
 cggagacaac ggatttggtc gcattgggag cctggtcacc atggctgctc ttaactctgg 120
 taaaatgcat attgttgcca tcaattaccc gttaattgac ctcaactgca tagtatacat 180
 gttgcaatat gatctcacgc atggcaaatt ctatttcacc atcgacgctc agaacttaaa 240
 gcctgtcatt aatggatata taatcaccat cttacaagag ctagatccct gcaagatcaa 300
 atcctgctat gctgatgctg agtacaaaat gcagtccact ggcatattta ccaccatgga 360

<210> 20345
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-056-Q1-K1-C11

 <400> 20345

 gtcagacagt gacctccacc cccgcatccc tcttaaaagg ccagtacctc ttgggggtag 60
 gggggagggt tcagaaagca tctgctcatc tgcctttcta tcacccatcc tccacaactc 120
 ttttaatatata tatacccttg gcctctatta cttcttcatt gacctcaact acatagttta 180
 catcatccaa tatacatcca cctataatac attacattcc accttcaagt cttaaaaccg 240
 taacctagct attaatgtaa atcccatcac catcctccaa catcgatatc cctacataat 300
 caagcttttt ccatttctaac tctcaata 328

<210> 20346
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-056-Q1-K1-C12

 <400> 20346

 ctttaaaaga ggtaagagca acgtgctttg ggagcagaga agaggagaga agcagcatct 60
 tgcctggatg agccagggga cacagaagag aagcccacta tctcatttaa tctttacaac 120
 tctcttgcaa ggttccttgg ttgtgaaaat acatgagata aatcatgaag gccactatca 180
 tcctccttct gcttgcaaa gtttcctggg ctggaccatt tcaacagaga ggcttatttg 240
 actttatgct agaagatgag gcttctggga taggccaga agttcctgat gaccgcgact 300
 tcgagccctc cctaggccca gtgtgccct tccgctgtca atgccatctt cgagtgggtcc 360
 agtgttctga tttgggtctg gacaaagtgc caaaggatct tccccctgac acaactc 417

<210> 20347
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-056-Q1-K1-D11

<400> 20347

caataatgtt catagcaact ttattcataa taataaccaa aaaatcagaa acaacccaat 60
gtccattggg gataaacaca tggataaaca acgtatccat aaatgaagta cagggtggtaa 120
aaagaagcaa agtattgata tatgcaacaa atgaataagc tcaaaaacat tatgctaagc 180
aaaagaagcc atacatatca ttttaattttt aaaaattgta tataacagac aaatctcatc 240
tacagtgaca gaaaacagat caatgtcacc ggccgctgga actcctaggg agtactcact 300
gcaaaggagc ctttctggag tgatgaagat gttctctctc gattgtggtg gtcgtggcat 360
gggtacagaa cacttgtcaa aaggcatgga attactcaag atgggagcat ttttact 417

<210> 20348

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-D9

<400> 20348

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gaggcatcgg aaggccagcc tgttgtgtcc gttttgaagg tcgggtgggct agactggctg 120
gccttctagg ggtgtggaga cttcccaact ctgcccttgt gctttcctgg aatccccaat 180
atgcccggac cccggtttac tcctttgctg cgagcccttc tctcccgctc agagttgctc 240
cgagcctatc tgctcagtc tagcgattcc tgtggggctt gggacgcgcg gttcaagcac 300
cccggaccat atggatgcag caccatggg ttctcgctcc aatgcttctt tcctccttgg 360
ggcgtaactc ataccctggg caccctttc cac 393

<210> 20349

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-E11

<400> 20349

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agggtgcctt cccagtgagc cttgccaaac cgccctgttt aaaagttcac cattccacac 120

tccctatccc cctctgtgcc tcagtttccc tgtggaacgt ataccatgga acatactatt 180
 aacctgtcac tcaccttcct tattgtttgt tccccacgtg gaggaatggt gtctgacgtt 240
 agctcgcttg cttgtttgtt tgtctgtctg tacctctgct gggccctgtg cttggagcat 300
 tgccctgcctc agaggtgcat acaatgatga atgcctgaac agctgaaggc tctcgatgga 360
 cgat 364

<210> 20350
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-056-Q1-K1-E12
 <400> 20350

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 ctctatgaat cccatgtagg gtgcagaccg tactccatcc ctccctgtga gcaccacgtc 120
 aacggctccc ggcccccatg cacggcggag ggagataccc ccaagtgtag caagatctgt 180
 gagcctggct acagcccgac ctacaaacag gacaagcact acggatacaa ttcctacagc 240
 gtctccaata gcgagaagga catcatggcc gagatctaca aaaacggccc cgtggaggga 300
 gctctctgtg agtattcgga cttactgctc tacaagtcac gagtgtacca acacgtcacc 360
 tgacagatga tgggtggcca tgccatgcgc atcctgggct ggggagcggg g 411

<210> 20351
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-056-Q1-K1-E9
 <400> 20351

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 gaacaaacac taatgttaat tgcccaattg agtgcttaat gcctttagat gtacaggctg 120
 acagagaaga ttcccagagag taaatcatct ttccaatcca gaggaacaag catgtctctc 180
 tgccaagatc catctaaact ggagtgatgt tagcagaccc agcttagagt tcttctttct 240
 ttcttaagcc ctttgctctg gaggaagttc tccagcttca gctcaactca cagcttatcc 300

aagcatcacc ctgggagttt cctgaggggtt ttctcataaa tgatggctgc acattgcctg 360
 ttctgcttcg aagtattcaa taccgctcag tattttaaat gaagtgattc taagattt 418

<210> 20352
 <211> 261
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-F10
 <400> 20352

cgctttgctt caggtctggg ctatgttcag aacctaagca ggctgtgaga ggtagaggag 60
 gcagtattac atgttaggcc cagaacacca tgggaaaagg tttatgtcgt gtatcttact 120
 gccctgccta gctgcctgtg ggccacgctg acttctgatg ttcacattag ctcgtagctg 180
 aaccctgttg ctgaatgccca tccccgatct cgctgcaact attatatacg cgatgctatg 240
 ccttgcatg cctgaggtaa g 261

<210> 20353
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-F12
 <400> 20353

cggcgttggt ctggattccc gtcgtaactt aaagggaaac tttcacaatg tccggagccc 60
 ttgatgtcct gcaaatgaag gaggaggatg tccttaagtt ccttgacgca ggaacccact 120
 taggtggcac caatcttgac ttccagatgg aacagtacat ctataaaagg aaaagtgatg 180
 gcatctatat cataaatctc aagaggacct gggagaagct tctgctggca gctcgtgcaa 240
 ttgttgccat tgaaaaccct gctgatgtca gtgttatatc ctccaggaat actggccaga 300
 gggctgtgct gaagtttgct gctgccactg gagccactcc aattgctggc cgcttcactc 360
 ctggaacctt cactaaccag atccaggcag ccttccggga gccacggctt cttgt 415

<210> 20354
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-G10

<400> 20354

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ttgcagttag aggtattcga ccattcactg gctgagccag atcacgggaa cttgagagct 120
tttactgtga ttcttcaatg taaaaaataa acaacaatgt caaactgtgt ttatatgatt 180
tgtataaagc ctttttaaga ttactattta aataaacatt ataccagag 229

<210> 20355

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-G11

<400> 20355

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gacaatgatg tcaactgttg gagccccag ggcaggattc atcaaattga atatgcaatg 120
gaagctgtta aacaaggttc agccacagtt ggtctgaaat caaaaactca tgcagttttg 180
gttgcaattga aaagggcgca atcagagctt gcagctcatc ataaaaaat tctccatggt 240
gacaaccata ttggtatctc aattgcgggg cttactgctg atgctagact ggtatgtaat 300
tttatgcgtc aggagtgttt ggattccaga tttgtattcg atagaccact gcctgtgtct 360
cgtctt 366

<210> 20356

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-G9

<400> 20356

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cagccagaat ggggtgtgaag gcgtctcaa caggctttgt ggtcctgggtg ctgctccagt 120
gctgctctgc atacaaactg gtctgctact acaccagctg gtcccagtac cggaaggcg 180
atgggagctg cttccagat gcccttgacc gattcctctg taccacatc atctacagct 240

ttgccaatat aagcaacgat cacatcgaca cctgagagtg gaatgatgtg acgctctacg 300
 gcatgctcaa cacactcaag aacaggaacc ccaacctgaa gactctcttg tctgtcggag 360
 gatggaactt tgggtctc 378

<210> 20357
 <211> 202
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-H10
 <400> 20357

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 ttagtatcca taggggtaga gagtgaactt aaacaggcgc aaacagcatc aactcataaa 120
 ttgaaaataa aaaacacaca aagccaaatc aacactcaaa aataacctta ttgatgacca 180
 ggaaagctag atgccataca tg 202

<210> 20358
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-H12
 <400> 20358

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 ttttttactt ccttttcttc ttccttatat aacatgaaga acattgtatt aatctgattt 120
 ttaaagatct ttttgtatgt tacgtgttaa gggcttggtt ggtatccac tgaaatgttc 180
 tgtgttgcag accagagtct gtttatgtca gggggatggg gccattgcat ccttagccat 240
 tgtcacaaaa tatgtggagt agtaacttaa tatgtaaagt tgtaacatac atacatttaa 300
 aatggaaatg cagaaagctg tgaaatgtct tgtgtctcat gttctctgta tttatgcagc 360
 tgatttgtct gtctgtaact gaagtgtggg tccaaggact gctaactact ttgcat 416

<210> 20359
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-B9

<400> 20359

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atgtgaatgg aaaccagatg aagaagatga gatttcggag gaattgaaag aaaaggccaa 120
gattgaagat gagaaaaagg atgaagaaaa agaagacccc aaaggaattc ctgaattttg 180
gttaactgtt tttagaatg ttgacttgct cagtgatatg gttcaggaac acgatgaacc 240
tattctgaag cacttgaaag atattaaagt gaagttctca gatgctggcc agcctatgag 300
ttttgtctta gaatttcact ttgaacccaa tgaatatttt acaaatgaag tgctgacaaa 360
gacatacagg atgaggtcag aaccagatga ttctgatccc ttttcttttg atgga 415

<210> 20360

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-H9

<400> 20360

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attaacacagg ccaaacagat caactttaaa ttgaaaaaaa aaaaaacaaa aacaaacaaa 120
caaaaaaaaa ccttattgtt gccaggaaag tagatgcata aatgccactc tggatatcctg 180
gccatcttaa agggcaattc ttcttgatat ggaggtagta agtataacat attcaaatta 240
tctaaacgat aggaatcata atattttatg ctttttctag cagaattatt ggtaaaacaa 300
gaatacttct aaacatacct tcattccacg tgttagaaag caatattcgg gccaggcacg 360
gtggctcaca cctgtaatcc cagcactttg gaaagctgag gcgggtggat c 411

<210> 20361

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-H10

<400> 20361

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gagggggggc tggactacct ctgaaacccg aggctcatcc aggggcacag tataacttgcc 120
 atatgagcct accgggcagg gctaattggac gccgtcgacg actggcgcat ggacatcatg 180
 ccgatcggcg aggtcgtcaa cgctgtctac cagagcgact gcttcgtcac aatcgtcata 240
 gtcgccgacc acaatgcctt cgacattctc caggtaagg agctcaagaa cggccgactt 300
 gtcattgcttg 310

<210> 20362
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-H12

<400> 20362

accaccacca ccaccacggc catcgccgcg acgacgacga agacgaccgc agaggcccg 60
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 ccgtcgaccc cgatccgtac ggctcgacct cgccccagtc cgcgtacggt ggggcccggg 180
 acgcctacgg ccacagcggc caaggctacg cgccccgcc ggcctacggc gccggggggc 240
 ggtacggcaa cgtcgtccac gtcgcgacg aggtcggcga cgagaggcct tactacggcg 300
 gcggcgggcg cggtcttggt ggcgcctacg gaggcgttg ctccgagtac ggccacgagg 360
 gccgaccgca ccacggcggc ggcggatccc agtacggcca cgagacacgc cc 412

<210> 20363
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-H3

<400> 20363

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 gcttcatatg gtcagagtgc accagcagct ccaggatata ctcagcaagg cacgcagcaa 120
 ggtggctatg cacagtaccc gcagacccaa ccagcatatg gtgatcaagc agctcaagcc 180
 aatgcgaact atgggtacca gggagctcca gcagatccca actacggaag tgcgtaccca 240
 cagcagccag ggtatgggcc tcctggtcag gcaactggtc aggctgggta tgcattcctt 300

gcgccagcgg ccagccagcc tgtgtatggc caggctggat ataccagcc acctacaaat 360
 cctccaagtt atgatcagtc tgcagcacca gcggcgactc agagcggtta tgcttcgccc 420
 cctgcaaatt cacaac 436

<210> 20364

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-H5

<400> 20364

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 tgtgccgcat caccttccgc actgcttgct gcgaatcaaa ggtgacgaaa ccgaaccccc 120
 tcgaccggct cgtctcgctg tcataaatca ccacgacgtc cgttaccgag ccaaacgtct 180
 caaagtaagc ccggaactac ttctcggaga tattatcccg caaacccgga atgaatacct 240
 catatgaatc atagctcaca ctgtcgtcac tgtcagcagt accattacca gcgggcgact 300
 gattgtcttg gataccctga ccccgggcct gtcagcctg ctgaggctgc gagtgc 356

<210> 20365

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-H7

<400> 20365

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 tgggctgagg cattgcgtga gatctcaggc cgtttggctg aaatgcctgc tgatagtgg 120
 taccagctt acttggtgc acgtttggca tccttttatg aacgtgctgg taaggtaaaa 180
 tgtctgggaa gtccagacag gaatggcagt gtcacaattg ttggagccgt ctctcctcct 240
 ggtggtgatt tttcagacct tgttacctc gcaaccctca gtattgttca tgtcttctgg 300
 ggtttagata aaaagctcgc tcaaaggaag catttcccat ctgtgaattg gctcattttc 360
 tattctaaat actgcaaagc gccttgagtc tctttacgag 400

<210> 20366

<211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-H8

 <400> 20366

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 aggagctgaa atggctgtgc gttcacttga gcgtcttctg cagtatggcg agcagaatat 120
 aagacgagca gtgcctcttg ctcttggtat actctgcata tctaatccca aggtgaatgt 180
 tatggacaca ctgttttagat tgagtcatga tgccgatgcc tatgtgtcaa tggctgcaat 240
 tatctcattg ggtatgattg gtgctggcac atacaatgcc agaataagctg ccatgcttcg 300
 caatctttca agttattact acta 324

<210> 20367
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-H9

 <400> 20367

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 ggggataagc cgcctcagat acgtcttgca caccctgcta ccctctccaa attcaaaact 120
 aggaaacggc gcagggaaac agcaggcagc tgtttatggg tcattggaga tcatgtagac 180
 gcatgggtca ataattgctg ttggcgagag ggagttatct ctcagaatta tgagactgac 240
 gagacgaaat atgtttgtaca tttttcagtt ggaggtgggt gtgaatcctt agtagttgat 300
 gcttggagtc ttcgtccatc acgtgttttg aaagatgttc aatggataga gtgggtcccg 360
 gcaagagaaa ggaaatccaa gtctaataag ggcgattcac ctcttgagaa acgccaaaag 420
 a 421

<210> 20368
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-056-Q1-K1

<400> 20368

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ggcgggcgcg tcacgcggtt caaggccggc gacacggtcg gcgtgggcta ctctgtgggg 120
tcctgccgct cctgcgacag ctgcggcaag ggggacgaca actactgcgc ggngatcgtg 180
ctcaccttca acggcgctga ccacgcgcac ggcggcgcgc ccaccagggg gggattctcc 240
gacgtcctgg tcgcgagcga gcactacgtg gtccgcgtnc ccgac 285

<210> 20369

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-A10

<400> 20369

gacgcgcaga aggggaacaga gaacggcctc ttcagcagga gctactaccg agccatgacc 60
tggtgccatt aacgaagcac atgtatcaca agccgattac acacgggacg gccacggaac 120
actgttgatc gatgctgcat tctcactgaa atacgtagtg gatcttggat gagtaagaaa 180
gtcatgtgac gctcagaatg aggattacac ggaccttgct accggagata ccaacgacat 240
cgtgtgcctg tgcttcacat gcctgcacag cgaagcaatg ataggcatca acagggccca 300
tgctgtatga cagaaccaac aggtgacagt acttgagctg gtaagtaggg actgcatgca 360
caagcacatg ggctgtcaag cacatcgatg tactc 395

<210> 20370

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-A11

<400> 20370

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ccactacttc cttaaaatca ttcacctttt tgatgaatat tccaaatggt tacttgatgg 120
agcacacaat gtgggctcta aaccaattca acaaatccgc atattccttt tcgagaaagc 180
tttagcactt attggcaata aaacccttat tcgccaaggc cttcatgggc acctttgaaa 240

caacccatct tt

252

<210> 20371

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-A9

<400> 20371

ccagaactgc ctcaagtacg gccgccccga cctgggcttc ctcaagtggc ggtggcggcc 60

ctccggatgc gagctgccgc gcttcgacct gctgcagttc ctgcagttcg cccgcgggaa 120

gtcgtctggc ttcgctgggg actcgtggc gcggaaccac atgcagtcgc tgctctgcct 180

cctgtcccag gtggcgtatc ccaaggacct gtcggcgaac ccgtcggacc agaacaaggt 240

gtaccactac cgggcgtaca acttcacat cagcatgttc tggtcgccgt tcctgggtgcg 300

cgcccgaggag cccgaccacg acggccccgc gcacacgggc cactggagcc tctacctgga 360

cgagcccgac gacaagtggg tgtcccagat gccccgcttc gactacgtgc tgggtgtcggc 420

<210> 20372

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-B10

<400> 20372

cacgtctaat gctgatgaat ttgaagacat ggtggctgaa aagcggctga tcccagatgg 60

atgaggggtc aagtacatcc ccagacgcgg ccctctggac aagtggcggg cactgcactc 120

ctgagggctt ccaaagtgt gtccacatga taatactcac caatgaattc tactacctgt 180

ccactgtacc attataaatg aagaacagat aagaagatga gttagataac caaatgagag 240

aaaggtggag atattgaaga ttaccggggg ggcgatttat aggacccaac gctacttaca 300

catacttgct acgctagaga acatatacca gggtagcgaa ctaaagacta ctggccgggg 360

gttacaacga gaag 374

<210> 20373

<211> 419

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-B12
 <400> 20373
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 ctgccaaaccg tgggcgagct ctgggtgtgc gggcggcctg gcgcggcgct ccgctgtgtc 120
 agcgtgttat gatgccgtcc cgtaccaacc tggctactgg aatccccagt agtaaagtga 180
 aatattcaag gctctccagc acagacgatg gctacattga ccttcagttt aagaaaaccc 240
 ctctaagat cccttataag gccatcgcac ttgccactgt gctgtttttg attggcgcct 300
 ttctcattat tataggctcc ctctgctgt caggctacat cagcaaaggg ggggcagacc 360
 gggccgttcc agtgctgatac attggcattc tgggtttcct acccgattt taccacctg 419

<210> 20374
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-G9
 <400> 20374
 gtcgaccacg cgtacgcaa cacgtaccaa tcgagcactg aatatcgctc cattgatatg 60
 gttctcatga tacattctgt ggcgtcagac gacgctggtg catatgacga caacgcggag 120
 gagccggtaa ctcgtaacgt ggatcccgat ctacatgaca actatcagta gctgatcgcc 180
 aaggaccact agctgatcta cgtgcaacgg ctgggcaagg ttctacaatg acgactacaa 240
 gcacgcttac cagatttccg tgcttaaagt caatctgcac ctgcgcgcc agtccatat 300
 gatagaccca tgatccgatac acggtataac taagctcttc gacc 344

<210> 20375
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-F4
 <400> 20375
 gcgtgatctt gctcagtcta gactgcaaga tttgctcaag gttgttggag ataaccgcgg 60

ttcgaagcac cccctggctt cttctggaag aaattttact tttgatgttc ctcagccatg 120
 tgaggatgag caatcgacga catcagaagc tatcagcagc ggccaaaatt ttaggcttca 180
 aggacgcctg acaacacaaa gagattatag gtcacagcaa tctgaaaatg acgtgcagtt 240
 tgctacctct cttagctatt caatcagcag tccccattc agtgggatgc ctccaactaa 300
 tggcagaaat gataactctc atatatctga tgaagattca gaggatcttt gcaaagaagt 360
 acggtgcata gagaccaatg aaacatatga atatgaatgc ttagagtcgt cagctggggg 420
 aagcc 425

<210> 20376
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-053-Q1-K1-F5

 <400> 20376

cagctagcta gcatacagac gaataatctc ttcttcacct cactaacacc agctagcagc 60
 tctttctctc ctgcaataat ggccgctcgc tctctctctc cccagccgca gctggctcgcg 120
 gcggcgccgg tcttggcagc ggccgctgctg ctgctggcgg cgggggcccgg gacggcgctcg 180
 gcggcggtga gctgcggcga ggtgacgtcg tcgggtggcg cgtgcctcgg gtacgcgatg 240
 ggcagcgccg cgctgcctct cgccggcgtgc tgcagcgng tgcgctcgct caacagccgc 300
 gcgtcgctcg cgccggaccg gcagggcacc tgcaactgcc tcaagagcat gacggggcccg 360
 ctccggcggg gcgtcagcat 380

<210> 20377
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-F6

 <400> 20377

aaactccgca ggccagtctg cgcgagttgg atggccttct tcttggccct cgtgtgcac 60
 ctctcttgc tagccatcgc ctctacgtc cagtacactc gctggcagaa ggggaaaggc 120

cgcttcggcg gccatgggag gtctgctccc ttgaagctgc ctctgggctc catgggctgg 180
 ccttaccttg gcgagaccct ccagctttac tcccaggacc ccagcgtctt cttcgcttcc 240
 aaacagaaga ggtacggcga gatcttcaag acgcaccttc tgggctgccc gtgcgtgatg 300
 ctggcgagcc cggaggcggc gcggttcgtg ctggtgacgc aggcgcacct gttcaagccg 360
 acctaaccgc ggagcaagga gcgcatgac 390

<210> 20378
 <211> 124
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-F7

<400> 20378

agatgaccct tttctatata acggacatga tcacccactc cgggacggac atgtcgaacg 60
 tgggcgcccg attcaccgac ctgttctttt cgacaaaact cttcaacgac cccaccatga 120
 gcgt 124

<210> 20379
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-F9

<400> 20379

acggggccat ttaagtacgc atatttgatt tgagagctgg aggagacaag atcacgcatg 60
 ctttgagatg tatatgctgg aggagcaagg acatccaagt agaggctggt aatcaagcac 120
 taccggagat agctgagatc ctgctaaaa tcaagctgac actgcatcca tggacgttga 180
 gcttaagagg tggatcatca gaacgcatac gatatggaca cttgcccagt taaaaaagct 240
 gaagattaca gaaatagtct gcatcaagaa gcacatgcaa aagctcaagc attacacttt 300
 gaacatgaat taccttgaag aagaatgcct atcatgcttc acaaaggcga taagatgctg 360
 aacttgtgaa gatacaagag gcatcttccc agaggaaaga atct 404

<210> 20380
 <211> 153
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-G1
 <400> 20380
 aaaaaaaat aagataaaaa aaaatacata tatgaaagaa gagaaaactc aatctgggag 60
 ggacaagtag atcgaagggt ggctgtgacg atgacgtggt ttagtgcgct ggatctgatt 120
 cttgagccct gcatgagcgt gaccatcgtg tag 153

<210> 20381
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-G10

<400> 20381
 gtgggttggc ttctcctccc cctccggttc gggttcgggt tcgtgagggt ctccgggggt 60
 cggtttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120
 cggcggcctc gcctggggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
 cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc gcggcttcgg 240
 ctctcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300
 ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg 360
 cggcggcggc ggcgggtacg gtggtg 386

<210> 20382
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-G11

<400> 20382
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 gcgctgtgtc gggcattgca ctgcagcttc ctctatttat gaactgcac ttatttttaa 120
 gccgggaggg gtttcgacgt gcatgtttgc gtaatgattc ccagagtgat gtgttgactt 180
 ctgaagcgat actaatggtc gcttggtggt taattccagt gtccatctta attacttctg 240

ttggcagcat acttgtgttg agtttaaaga gagtgaagct atctgacccc tatgcgaaag 300
 ctgtattgat catcgattt gcttgtattc tggaattact ggcggaacca ttatacatta 360
 tttcccagaa aaagaaatac tataatataa gagtgtacgt tgaaccgaca g 411

<210> 20383

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-G2

<400> 20383

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 tctccagtct ccaccgatgg cgatcaagaa catgacgggtg gcggcgacga cgcgggtcgct 120
 ggacgcggac atgacgggtgg acgagttcaa ggagtggctg cggcgggttcg acacggacca 180
 ggacggggcgc atcagccgcg acgagctgcg gcgcgccctg cgtgccatcc gctcccgggtt 240
 cacgggggtgg aggagcaggc agggcatcag ttacgccgac gctgacggcg acggctacat 300
 cgacgacagc gaggtcgatg gcctcatcga gttcgcgcag aagaacctcg gcctcaagat 360
 cgtcgcctac tgatctcaca tggggcgcgg gcgcgccggg tcgggggggtg ggacgcac 418

<210> 20384

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-053-Q1-K1-G3

<400> 20384

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 tggccgctcg ctctctctcc tcccagcgc agctggctcg ggcggcggcg gtctctggcag 120
 cggcgtgct gctgctggcg gcgggggccc ggacggcgtc ggcggcgggtg agctgcggcg 180
 aggtgacgtc gtcggtgggc ccgtgcctcg ggtacgcgat gggcagcgcg gcgtgcct 240
 ccgcggcgtg ctgcagcggg gtgcgctcgc tcaacagccg cgcgtcgctg gcggcggacc 300
 ggcaggccac ctgcaactgc ctcaagagca tgacgggccc gctcggcggc ggcgtcagca 360
 tggccaacgc cgncaacatc cccggcaagt gcggcgctct cgtcggcgtg ccca 414

<210> 20385
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-G4

<400> 20385

atcaatttca tcgtccaacc cttcgacggt caagactggt tcgactcggt cgacatggac 60
 tgtagcctca tacaagata gtcgagagct tcctactcct aggacagaag gggaaatctt 120
 gtcacaccca aatttgaagg cattctcggt tggatgatctc agaactgcgt cgaggaactt 180
 cagatcagac agtcttcttg gggaaggagg atttggctat gtgttcaaag gctggattga 240
 tgagcaaact cttgcccctt caaagccagg aagcggatg gttgttgcca tcaagaagct 300
 aaaaccagaa gggtttcagg gccacaagga gtggctgaca gagggtgact accttgggcc 360
 aacttcacca ccagaatctt gtcaaactca ttggttattg cacagatggt gatcaccgac 420
 ttctggtgta tgag 434

<210> 20386
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-G5

<400> 20386

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 ccgacgtggt gatcgtgggc gccgggtccg cgggcctgtc ctgcgcgtac gagctgtcca 120
 aggacccac cgtgagcgtg gccatcgtgg agcagtcctg gtccccgggc ggcggcgct 180
 ggctgggcgg gcagctgttc tcggccatgg tggatgcgag gccggcgcac ctgttcctgg 240
 acgagctggg cgtgggctac gacgaggccg aggactacgt ggtgggtcaag cacgcggcgc 300
 tgttcacgtc caccgtgatg agccggctcc tggcgcgcc caacgtgaag ctgttcaacg 360
 ccgtggcggt ggaggacctg atcgtgcggc gggg 394

<210> 20387
 <211> 319

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-G6

<400> 20387

ctggttcgac tcggtcgagg tggactgtat cctcatacaa agatcgtcga gagcttccta 60
 ctccctaggac agaaggggaa atcttgtcat caccaaattt gaaggcattc tcgtttggtg 120
 atctcagaac tgcgtcgagg aacttcagat cagacagtct tcttggggaa ggaggatttg 180
 gctatgtggt caaaggctgg attgatgagc aaactcttgc cccttcaaag ccaggaagcg 240
 gtatggttgt tgccatcaag aagctaaaac cagaagggtt tcatggccac aaggagtgg 300
 tgacagatga tgactacct 319

<210> 20388
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-G7

<400> 20388

cttctgatga tgcaccgcgt gcaacagatg aacaaatcaa gaaagcttcg aatatattga 60
 aacgtattga tctgataaat ttctctgcat gccaatctgc taaccagct ttgcaaagac 120
 actatgggat cttggaggcc ttagcttttag gcgaagatga gatgcctgat ataaaggacg 180
 agaccctgcc tgacgaagaa ggcttgtcta agccaggggt agccaatgct attgaggaat 240
 tcaagacttc agtctatggt gaaaattatg accaagagga ggcagaagcg gcagcaggga 300
 aaagcttccg tggtaatgct tcaaaaaagc ggaaggaggt cactgatgca gctgcgcaga 360
 taagtgtctg ttatgactgg gcagaaactg cagacaatgg aaaact 406

<210> 20389
 <211> 377
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-053-Q1-K1-F3

<400> 20389

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 gaaaacgaaa ataccgagtc gagtcagcga tgaatccctt cgccaaaaaa ccaacaccgc 120
 gagaggtgat gcgagcagc aagcgggacc tgacgaatgc tacgcgaggg atcgagaggg 180
 acattgcgtc attacagcag gaggagaaga aactcgttgc tgaaattaaa aggacagcaa 240
 aaactggcaa tgaggcagca acgaaaattc tagcccgta gctgatcagg ttaaggcagc 300
 agatttctaa nttgcaaggt agccgagctc agattcgggg gattgcgaca catactcagg 360
 caatgcatgc caacact 377

<210> 20390
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-G8
 <400> 20390

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 caagaaagct tcgtatatat ggcaagcgcc ttgatctgat aactgatct gcatgcgcat 120
 ctgctaacc agcttcacgg agacactatg ggatctcgaa tgccttagct ttacgctatg 180
 atgatatgcc tgatgtatag gacgacaccc tatctgacaa acaaagcttg gctaaacgag 240
 tgggtctcaa tgctatagac gagtttgata cttcaagcta tggcgataat tatgccccaa 300
 aggaggcaga tgctgccatc aagaaagcat tcccagctag tgcttaaggc caaccgaaag 360
 aggtgactga tgcag 375

<210> 20391
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-053-Q1-K1-D6
 <400> 20391

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 gtgaagccgg aggcgcccga gccttgacag gtcgagctct gtgcggaggt cctttgaagt 120
 caccgaccca aagccagtgc cagtgccagt gccaatcct gttccagtga ccgcaccacc 180

ggccgccatt gtcaacggca aggaatcccc tgcaatgggc agctcggagt tctaccactt 240
ccaccacgcc gaagacctgt tcgaccaccg cttcagcacc aactcactcg tcgaggggctt 300
ctccgncagc ctggacgctg ccttccacgg ccccgcgaaa aaccgccgcg gtggcgc 357

<210> 20392
<211> 185
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-053-Q1-K1-D7
<400> 20392

cggacgcgtg ggattttttg ttttgttttg ttacaatagc aatttggttc ccgttgggaa 60
gctgatatcg gttagatgct ggtatagagg aaatctgagt tttggcagca cgacctatta 120
ttgcatggcg cttctgcttc atgctgttcg gtccattgta tcgaatatgc cgtagagatg 180
gcact 185

<210> 20393
<211> 384
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-053-Q1-K1-E1
<400> 20393

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gtggagcatc atcaccgcgc ccatgttcca gagcatgctg agccaccgcg gcgacagcgg 120
gtgccagggc gccttctaca cctacgacgc cttcatcgag gccgccagca agttccccgg 180
cttcggcacc accggcgacg agcagacgcg caggcgggag ctgcgccct tcttcggcca 240
gacgtccac gaaaccaccg gtggatgggc gactgctccg gatggaccgt ttgcctgggg 300
atactgccgg gtgaaggaac agaaacagac ggaccacccc tactatggac gaggacccat 360
acagctaact cattagtaca acta 384

<210> 20394
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E11

<400> 20394

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 gtttaaccgc cctggctggg tcctcttcct catccacctc acgctcttcc agaacgcctt 180
 ccagatggcg catttcgttt ggacactggg aggtttggac aatggtagcc tgtaaaagat 240
 cctcgagtgt tctgttcac cagtcagtgc agcataacga gcagaggctg acttgcctac 300
 ctcttttctc ttggtctggg tcgtcctggc gcagctcacc ccagacctga agaaatgcta 360
 ccacgagagg ctgggcctga gcatcatgaa agttgcggtg ggcctggctc tccagttcct 420
 ctgca 425

<210> 20395

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E2

<400> 20395

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 cataagacca atgcgtatatt caaacgtttc caagtgaat tcaagagaag gcgggctggc 120
 aagacagact acagggccag gataaggctg attaaccaag acaaaaacaa gtacaacaca 180
 cccaaataca gatttgttgt gcgatttacc aacaaggaca tcaactgcca aatcatatct 240
 gctagtatag cgggtgatat ggttcttgct tctgcctact cgcagagatt gccacgatat 300
 ggtcttgaag ttggtctgac caactatgca cctactgcac tggccttctg ttggctcgcc 360
 gtgtgctcaa gatccgtggg ttggatcaag agtacgagg caatgttgac gccactggtg 420
 aggacttct 429

<210> 20396

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E3

<400> 20396

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atggttccca ctaagcccat ggtggtggag accttttctc agtatcctcc tcttggtcga 180

tttgctgtcc gtgacatgag gcaaacggtg gctgtcggag tcatcaagag tgtggagaag 240

aaggacccaa ctggagccaa ggtgacgaag gctgctgcca agaagaaatg atctatctgg 300

ctggtgacga aggctgctgc caagaagaaa tgatctatct ggctggtgct gtgcttgctt 360

gttggttacc tcgtggaagc ttaaaatata tcgtcttggt gacatccttg cagttgtcgc 420

gtgaacaagt aatctatgat ggcaat 446

<210> 20397

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E4

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ctttagctca tttcacggtt acagatgtca ttgatttagc agaagtgcac caccctttct 240

gtgagtatgg ttgacatctc acctcgagca catgatgtgt gccaaacaca tgtcttggtc 300

tggaaatcct ggctttgaag gtggtaacat agagagcgga catggtgctt tatgcattct 360

tttgaccatc atacaagtat agatgttatg tcttgtttag gatagtggca tagttggctg 420

taaacaagca ggagagtaga tgcggatcta aaattc 456

<210> 20398

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-053-Q1-K1-E5

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 tcatgagaat acggagctac tgcttatggg acatatactg agcgctttgc cttgtaaaact 300
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<210> 20401
 <211> 391
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 20401

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 accaaacagt attcttgggtt tgtcacatgg atttctcctt ggacatttgc aatctctggg 180
 ttttgatttc cctaaaagca tcagtgtgat tgctgtatgc cccaaggga tgggcccac 240
 agtcagaaga ctttatgttc aaggcaaaga gatcaatggt gctggtatca atgctagctt 300
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<210> 20402
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E9

<400> 20402

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 caatgtgaag ctggtccgga agcaagagga cagaagacta ccaatgctgg acgtgctgct 180
 tatctaagct aaccgaagtc aagaggaccc aagtttatga ccgcctacag cattcatgca 240
 tgctgtatga gaacaatcgt catctcgaca ttccaaaaca gaacaatcac tggctgtaac 300
 gtccgaggag atct 314

<210> 20403
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-F10

 <400> 20403

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agcctctgca gcaggcggcg ctctatgcga atgggggtgc tgtggaccct ggaacgtctt 180
acgatcaggc atcccagttt aaaaatgtta gttctgggtg gaatgggtcaa gctgccaacc 240
ctgctgtgcc cctgccagag caagcactga attacgatga tcaaagtga aaccttccac 300
cgctccttg ggaggctcag ccagcgtcaa acaatgaatt gccaaatggc caattgggaa 360
gcttgcaacc tctcccaggt tcagctggcc agatcggtgg ca 402
  
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<210> 20404
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-F12

 <400> 20404

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gtttctgtct ggtgcactgt aatgccgact acacactgtt tggatcttgt gtacgcccac 180
agctagttca actaagatgt atcactagtt cgtccatgga ggaaggagaa tggacgatga 240
agtgtggtca gcctgtcgac catgaagtgt tttcttccaa tggagtctag ggtatgtttg 300
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<210> 20405
 <211> 382
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 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-053-Q1-K1-D5

<400> 20405

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ggaaacagag ttccttgctg tcattttggc tatttgttct tgtattcatg atgcgtgtgc 240
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atcgccatt tgaactgcca tgtccattat tcatgaaaa aagttgttgg tgctntaata 360
aagttgtacc ttagttatct tc 382

<210> 20406
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-F2

<400> 20406

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gtaccgagct ccgccttggg ctgccggggg ccggttcgcc ggaccgccgt gttgtggctg 180
ccaccgcaac caccctggac ctgctcccgg ctaagggcgc caagcgcggg ttttctgacg 240
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aggacgacaa gaagggtgca gcgacgccgc agccggtcgc aaaagctcag gtggtgggat 360
ggccaccaat ccgaagctac cgcaagaaca cgatgtctac caccagctg aagggcagca 420
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<210> 20407
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B9

<400> 20407

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ttggattgaa ggataagttc gatgaggagt tcttgagaag gctgtttgtt gctaattggac 180
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ttgttgagga actaataaag tcagggaatg ctatagaggc tatatatgtt gcccatgaag 300
ctgatttgct tgggaaattt ccacctgtgc ctctcttcaa atcttatctg cagaattcca 360
ctgataaggc tcaagcagtg ttgaaaagtg gaagacattc caggtctgca cttga 415

<210> 20408

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C11

<400> 20408

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tcatggcctc ctgcgccgcc gtcacccgag ccacccctta catcctccat ttcctcgccc 180
gcgacggcga catccaggaa ctcaagctcg atctgtaggc ccgtccgttg cttccccacc 240
tccagagggtg ctacaaaggc aaccgttagt tcgaggccac tgcaaggtag tatggagtta 300
gtggctacag tgcttcttta agtttctttg ttgttccaag tttagtgaac aaactgacaa 360
tggtgtagca actgggttgt gctgcgacca gtatttcgtt tttgccta 408

<210> 20409

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C12

<400> 20409

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gcacctacgg cgaggctctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc 180
 gcggcttcgg cttegtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca 240
 tgaacggcac ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg 300
 gccgtggagg ccgcggcggc ggccgatacg gtggcgagac tggaggcggc ggctacggcg 360
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<210> 20410

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C2

<400> 20410

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 tggggcgcat ccaagcttgt ccagtcgga tatggtatca agaagctgca aatcatgatg 180
 accatagtcg acgatcttgt ctctgtcgac actctcattg aggactatct gtgcgctgag 240
 ccagttaacg agtacgtcca gagctgcgac atcgttgcct tcaacaagat ctaggcgtga 300
 ctttcgatca gtccttcccc tgggggtgctg gcgatggtgg tggctgggca atgcaccagc 360
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<210> 20411

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C3

<400> 20411

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 acgaacaggc gcacactgtc acacttacgt gtgcggttta gtgttttagc acatcattac 180
 tagtgcgata tgctcagtat gattggtgtc gtagtacaat attttggtgc atgatgtatt 240
 ataacacaca ctaatttgga ggttcactag gtgctagata agcaacgaca ctcgtgcatg 300

tatttgatga cgcttgaact caactgt

327

<210> 20412
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C5

<400> 20412

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cctggatgaa gaggtagaat caaaggagat gcagaagcag caaaagcagg atcataatag 180
catgagcctc aggaagctta gagccaagca caagaaatat ctcatgctg caaaggagga 240
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ccactgaaca gaacaagtag gcgaaatttt gtgtggatgg cgtctgccac aaaaggattg 360
aatcgaggag tgtgctcttg gtgtgaagtg ataactaggc ttacgcatgt tcat 414

<210> 20413
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C6

<400> 20413

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cgactgctac ggcgacctcc tccgcgaggg cgccgcggac tacctcaact ccatcgacgc 180
cgagaagtac gcctacagca cgcagcaggt tcaggactgc atcgtcgtcg cgctcacttt 240
caaggtcgac gtcg 254

<210> 20414
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-053-Q1-K1-C7

<400> 20414

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ctattggtcc tcctatggga aatccatgga tctacatgta ccctaaaggc ctaaaggatc 180

tccttatgat catgaagaac aaatacggaa accgcctat ctatatcacc gagaacggaa 240

tcggggacgt tgacacaaag gataatcctc tatccatgca agatgcgttg gacgactaca 300

agaggctaga ttacctncag cgccacatct cagttatcaa agaatacaata gacttggggg 360

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<210> 20415

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C8

<400> 20415

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cacagccctg cctggtcaaa gttgtggcca cgggacaggg gccccaagtc ccagcctacc 180

tcttacacag gggccagctg cgggggtggg cgggaagtga ggttcagctc cagggactta 240

gtgcctcagt ttctccacct gcaaaatgga gacgctaatt atgcctccca tagggcgggg 300

tgagggtgta tgagattctt caggagagagg ttcaaagggt gctggtggcc atgtcgtaag 360

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<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C9

<400> 20416

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agaagggacc taaggttggtt accttggcac tccttaacca ggcacataac ctacacagat 180
atggaaaact atatcttcag atgtgcccaa agttgagagt aagactcgta tatggcacca 240
gcttatctgc tgcagtagtt gagaatagtg cccctcaggg cacatatcaa gttgttctcg 300
cagggaatat ttccaaagtt gctcgtgctg ttgccgca 338

<210> 20417

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D1

<400> 20417

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ggtagcccc aacttccatc ttgtggagat aaagaagacg aatggcgaca ctctagagta 180
tcaaaggtc ctgaaccaag aaatgaggcc cgcactcaag gaaatagtgt gggcttggca 240
aggtgagcaa tcaaagcaaa agcaggaaca acagtcgtgt taaaaactta tgagctagtg 300
caatgttttt agccaatttc caatctttcg tgtatttgtg tagtttttac tcttttatta 360
tccatttttg ttttcccggtg taataccaac aaaaacttgt gtagttgtgt tattttctg 419

<210> 20418

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D10

<400> 20418

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gcagatatta agaaggcata ccggaaagct gcattgagac atcaccaga caaggctgct 300
caattattag taaggaacga gaatgctgaa gatggatttt ggagggatgt tatcaaggaa 360

gtctatgcag atgcggatca tctgttcaaa acaattgggg aggcataataa tgttctt 417

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<223> Clone ID: LIB3062-053-Q1-K1-D11

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<210> 20420

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D12

<400> 20420

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gccttcagca cctacggcga ggtcctcgag tccaagatca tcctggatcg ggagacgcag 180

atgtcccgcgt gcttctgggtt cgtcaccttc tacacggagg atgctatgcg gaacgccatc 240

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<210> 20421

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D3

<400> 20421

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gcccgcgccg cgcaggccga ttggctcgtg tcgaaagacc gcgcgctgct gaagctcgcg 120
aagcgcaccg cgcgcgactt cggcttccgg atcgcgcaac ccgcgccgtt tgccgaggcc 180
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gatgcggtc 429

<210> 20422

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D4

<400> 20422

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ggtgcaggcc gattggctcg tgtcgaacga ccggtcgctg ctgtagctgg cgaagcgcac 120
cgcgcgctac ttcagettac ggatcgcgca accgactccg tttgccgagg cctgcgcgct 180
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gaccgtatcg atgaacgctg catcagacat gccaacgact cccgttatcc cctcgcgcct 300
gccgaacggt ggcacgacga totttcacggt catgagcgcg c 341

<210> 20423

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B8

<400> 20423

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 gaccgtcacc gtcattggacg tcgtctacgc ccttaagcgc cagggccgca ccctctat 358

<210> 20424
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-A2

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 agcatggaac tgctaggca caaagcttgc ttcaggatcg atcgatcata ccgcacgtgt 180
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 tgctgacaaa tctattcgtc tttgggatgc tcgaagtga aaatgtcaag ttgttgaact 360
 tagtggagaa aacatcaaca tcacatataa acatgatggc actcagatag cttgtggaaa 420
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<210> 20425
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-A3

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 cttgttgagc caatagacgt cagcgtcggc ggactgcgc ttgcccatgc cgttctttga 180
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gatggagcga atggccgtca gagatgcgac agatcatcac catggaagga gaccatctga 300
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<210> 20426
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-053-Q1-K1-A4

<400> 20426

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gagccggatc gagtggagtc agctagctag atactccgtg gtcgtcgtcg tcgttggacg 180
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gcaggcgccg ncttctcctc ttgtgaacaa cccggccgcg ccgnncgcca agaagaagcg 360
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<210> 20427
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-053-Q1-K1-A6

<400> 20427

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cgatggacat ggccacctcg cacacgcact cccactccca atcacactcg cactcgtggg 120
gcgagacgcg cacgccagag tcggagatcg tggacaacga cccgttcccc gagctggact 180
cgttccccgc gttccaggac cgggcgatga tgatgacggt gcccaaggag gagcaggtgg 240
acggctgcag cgccaagagc ggcaacctgt tcgtggacct cagctacgac gacatccagg 300
gcatgtacag cggcctcgac atgctgccga cgnccgggga ggacttctac tcctcgtctt 360
tcgcgtctcc cagggtcaag ggg 383

<210> 20428
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-053-Q1-K1-A7

<400> 20428

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 cccttggtgt tcgtcgtcta caggcaggcc gtcgccacca ttgtactcgt ccccgctcgc 180
 atcgcggcca acaggaagaa gatgaaggag atgacgacgg gccttggact gacgggcttc 240
 tcgttggtct tcgtcgcttc ccttgctcgg gcaacggtga accagtgcatt gtactaccaa 300
 ggggtgaatc tgggctcgtc gtccatggca acggccatga ccaacttgat ccccgncatc 360
 accttcgtca tg 372

<210> 20429
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-A8

<400> 20429

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 agcgcggatc tgaacgtgc gctccgtgtc gtcgctcgaa tccgccatga agggggccaa 120
 atccaagggc gccgccaagg ccgatgccaa gctggcgggtg aagagcaagg gggcggagaa 180
 gcccgccaaag ggcaggaagg ggaaagccgg caaggacccc aacaagccta agagggtcc 240
 cagcgctttc ttcgtgttca tggaggaatt tcgcaaggag ttcaaggaga agaaccctaa 300
 gaacaagtct gtcgctgcgg tgggaaaagc tgctggcgac aggt 344

<210> 20430
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-A9

<400> 20430

cggtgttggc ttctcctacc ccaccgggtc gtgttcaggt tctgggtcgt gggccgagag 60
cggaagagca tggcctgcgt ctggacgggtg agtaccgatg cttcggttggc ggtctctgct 120
gagccaccga cgaccactat gtctacaacg acttaagaac ctactgagag gtgctctaga 180
cgctgatcat actggatcgg tatacgcaaa ggtctatacg atgctgatgt gactcactat 240
ccacggtaga ctcaatgcgc acaacgactg agatcgtgaa catccaggtg ctattgtgac 300

<210> 20431

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B1

<400> 20431

gttgagtatt cactgcatgt tgtaaaagtc gtcaatccac caccactccg taggggagag 60
aagataatag aggagcgcg c gatcgatgtc agactctggc gatcgatcatg tacgcgggtcc 120
tgcggttgcc catagaggct ggtaaatcat ggggactaag tctatgaaac gcggacgtgc 180
cgagaggaga cagttggctc catggagttc tacatatgtg acacctaaca cagcaaggcc 240
agcatggggt ggctgtggtt cctcgcaccc ttgtggaacc agctgggctc aagctacaga 300
tcatggtgct gctaccagtg gcaatcctag accgacatca caaacatcgc gccctgttct 360
ggct 364

<210> 20432

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B10

<400> 20432

gttgattact atgagcatgg tgttttggtg ttgtattcaa agttctgagc tatecttaac 60
taactggtgc tgtccgaagt ggggtgcaca aaagcttttg gatttgatat tacagctgct 120
tgtagtgggt ttttagtcgg cttaatcaca gctactcgct ttatcaaagg cggaggtttt 180

cagaatgtct tagtagttgg tgcagatgct ctttcaaat acgtggattg gacagacaga 240
ggcaggattg aggctgtttc atcctcctct gctgcgggat ggggtggggtc gtcaccgtgg 300
cgtcactcgt ggcgtatcgt gcagtatgga cgacaacggg gagctgtcaa gatgggttac 360
ctcaagacgg atgagttcct caagaggggc gagagcgggtg gcacgtgc 408

<210> 20433
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-053-Q1-K1-B11

<400> 20433

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cccaagctaa tgcagcatgg atttagtgat gccattgcan aagtaggttt gacaaagttt 120
gtcagtgacc tattcttgggt tggactgttc taccatctgt ataaccagat tgctacaaac 180
accttggagc gagtggctcc tctgacacat gctgtcggca atgtgttgaa acgtgttttc 240
gtcatcggtt tctcaatcat tgtttttggc aacaaaatta gcacacaaac tggaattggc 300
acgtccattg ccatagctgg tgttgctatg tactcttaca ttaaggctaa gattgaagag 360
gagaaaagga aaaagagcgc atgactgctg tgaataatat tatca 405

<210> 20434
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B12

<400> 20434

cggacgcgtg ggatcggcga gtggcaatcc aatggcacga tgaagatcat cgacagaggg 60
aagaacatct tcaagctgtc ccagggggag tatgtggcag ttgaggtcct ggaaagagca 120
tacctgcagt cacccttgtt ggcacgggtc tgggtctacg ggaacagctt cgagtcgttc 180
ctcgttgccg tggtgtccc tgagaggcag gctctcgagg aatgggcagc agccaacagc 240
aaggccggcg actttgcaga gctgtgcgct gatcccaagg cgaggaccta cgttcgggat 300
cagctgaacc aaactgggaa gaaacttggg ttgagaggct tcgagatgct gaaagcagtc 360

tacctggagc cggtgccttt cagcatcgag aaggacctcg tcaactccaac ctttaaa 417

<210> 20435
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B4

<400> 20435

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agcagcagcc ccaagcaggc agtcaaccct ggggaagagg aggtggtgga atctggctct 120
gtgacagcga cgcccaacgc tgcttgtgga ttccaagaaa gcagctatgg cgtgggtggag 180
gtggagctcg tcttgctga cagcccttc gcgccccca ccaaggagga ggctcatac 240
gctgatgctg tcaactgctgc agccgctcgg aacggtagca ccagcagcag cagccctcgc 300
catgtggccc ttttcgcacc cgcgtcttcc accaccctcg agctgcccc ctacagctcc 360
tctgtcttct ttcaggtgcc caggttttct cctgggcatg aagccattgg gctgtgatgt 420
gaggtgcaca ggacaaaaaa tggggagggg 450

<210> 20436
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-053-Q1-K1-B6

<400> 20436

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ggagcttcat ttaggaggag agaacaggca aggcttggca cgaagctcct tgtgctgacg 120
aggagatcgt tctgaacat gcacaggga gtaggtact actggatgcg tctggccgctc 180
tacatgggca ttggcgtgtg cctaggcact atcttctacc aacttggcta cagcagctac 240
agctctatcc agagtcgatg tgaagtaatc atgtacacta tcgcactcct aactttcatg 300
tctatcggag gatttccatc cttcgtagaa gacgtcaagg tggtcagaaa ggagaggctg 360
agcggncact acggcgtgtc 380

<210> 20437
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-B7

 <400> 20437

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 gggctggact acctgggcaa cccaacctg gtgcacgcgc agagcatcct ggccgtgctc 120
 ggcttccagg tcctcctcat gggcctcgtc gagggcttcc gcatcaacgg cctcgacggc 180
 gtcggcgagg gcaacaacct ctaccccggc ggccagtact tcgaccgct gggcctcgcc 240
 gacgaccccg tcaccttcgc cgagctcaag gtcaaggaga tcaagaacgg ccgcctcgcc 300
 atgttctcca tgttcggctt cttcgtccag gccatcgta ccggcaaggg gccctcgag 360
 aacctgctcg 370

<210> 20438
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-A11

 <400> 20438

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 ggtctccatt ggtcgcttcg ccaggtcctg gttagacccc agtccgcca cgagccactc 120
 tagttatcgg atcccgcatc gtggaatgct tgccataggg aggaaggtag ctggaaggcg 180
 tgaagaaatg tctgcaaatt atgcgttttg accacaggat gatgatgcca ctattaaaca 240
 caggcttctg actaggacaa cgaccacat ggggtgaaccg tcactaaaga agcttcagaa 300
 gaagtccatg tcctttgcaa ctgagatcga gaaggatgca gataacataa gtgactgtga 360
 aagactgtac aaggcctttc tacatgaaat taacaccttt gagctaccta ttctgaaaag 420
 caaggctgtg gttgatgc 438

<210> 20439
 <211> 460
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-G12

<400> 20439

gccaaatcaa gtaccaacta ctgaagagtt gattacgaag tacatagcca catgtggacc 60

aaagatagaa aaacttgtga aggcataatgt tgataggcac agtacatgtc atccaaccat 120

caaatacagc agctctgaga tgggagcttg agcttaatgg tgatgacagc ttgaaccttc 180

tgtcctacca atctgggttaa ccttcatttg taggccaac aagttaatat tgttcataca 240

aacatgtatg tccatgactt cttgaagcaa gtagtcagcg aagttccaga tattggtgca 300

tctgatgtta ttgctgatga taagcttggc aaaagacgta tatctatcct gtaattgata 360

aggttcttac atgtcaaaat aatcttctac gaagtgttaa taaatgctga attgtcatca 420

agaaagctgg agatggaagc gaggaggaat taaagaggac 460

<210> 20440

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-G2

<400> 20440

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cttggaaacct tcggctacca tgctcccgag tatgcatga ctggccagct aacttataag 120

agtgttatat atagctttgg ggttgcctt ttagagcttc taacaggaag gaaaccagta 180

tatcatacaa tgcctagagg tcagcagagt ctggttacat ggcgaacacc tatattgact 240

gaggacacag tataacaatg tgttga 266

<210> 20441

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-G6

<400> 20441

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cattcacgga acaacatgtg tcattttttac acttttttaac taatgtttgc gctattgttg 120
gaggtgtgtt caccgtttct ggaatcatag attcgtttgt ataccatagt caaagagcaa 180
tcaagaagaa gatggaaatc ggcaaattca actgatgttg cttactatt gctgcaatta 240
agtagctcct gttgcagctc caagatccag aaatgcaatg tggcttttcc tcgaactctt 300
ggcacagtgt cgtagttgac aaacaattgc tcatcagata actcttgatg tgcttgccaa 360
cttg 364

<210> 20442
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-G8

<400> 20442

cgaagagcgg cgacgccccg cgggggttcc gggagaaacc caggcactcc gagaagccga 60
ccaagtacgc cggcagcccc aagagcagcg ctccctcgct gatccaccag ccttgctagg 120
ttcgctggcc ggccccctgat ggggactcgg tgactcacat ggaaggctgc tgctctctta 180
gcagcatctg ctactggctg cagctgccgt cggcgctcgt gtctgtctgt caaagtcgaa 240
gtaaaaaac gtgagtagtt gtactactgt agaagttgct tttgtatagc atgcacgtaa 300
gaaatgacca aaaaatataa caagaatgca gctgttagtt tact 344

<210> 20443
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-052-Q1-K1-H1

<400> 20443

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acggcgatga tggggcagga cggcgctcggc ggaggggtga tcggggccct gctctacgcc 120
gcgctggcgg agctggcgct gcgtctggtg ctgtcgtaca agtcggcggc gcacgcggtg 180
cggcgggcgt ggcggtgggc ggacgagtgg gcgcaggcgt accagtacta cgaggtgccg 240
cgctcgcgg tcgacggcgc ggagaacccg ctgttcggga aggcggcggc gtacgtggcg 300

tcgctgccgt cgctcgagga cgcggacgcc gnctgctgc tgcgctcggc ggccaagagc 360
aacgacttcg cgctggagct gggggccgggc cacaccgcgc gggacgcgtt ctcgcgcgc 420

<210> 20444
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-H10

<400> 20444

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tgtgaggaag aaggcgggtca cccagccgag cccggagccg gagcaggaaa ccgtgggtga 120
gaagcgcgtg gaggaggcgg atccatggag cgcagctcgg cgggcggccc cctggcagct 180
ggcgtggcga gctcatccgc gcgtgctcga ctcgtacgcg ccggtgccgg ccgncgtacc 240
cgtcctgtgc gacggcgagc tcgtcggcgt gggctacacg ccctatgcgc accagctgcg 300
cactcccccc tgctcgaccc ctcagttcct ggtggacggc ctagggcccc tccgatggtg 360
t 361

<210> 20445
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-H11

<400> 20445

ccgaaatccc gttgcgtctc tcgcgcgtta ccaagctctc aagttttctc gcgccgacgg 60
caatggatga ggtcaccgag gccgtgaaca acctcaacat ctcgggcgta ggggccgcg 120
gcgttgccgg ggcggaaggg cacaagaaga atcgcatcca ggtctccaac actaagaagc 180
ccctcttctt ctatgtcaac ctcgccaaaga ggtacatgca gctgcacaac gaagtagagc 240
tgtcggccct cggcatggcc attgcgacgg tggtgacagt agcagaaatt ctgaaaaata 300
acgggcttgc tgtcgcgaag agtatcatga catctactgt tgatatcaag gacgagac 358

<210> 20446

<211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-H12

 <400> 20446

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 cctgttgat tgaataaatt tttgcagcct ataactctta cccctgaaga atttttcctc 120
 cagtggaaag cgctgactgt tcacttgctg aagggtcaag aagtgggttaa aggtgtgaaa 180
 ccaatgcctc tttctgagat ggctaattctt ttcagagcc ttcacttggc ggctcgctcct 240
 ggacttgata acaaccgaa caatctgggt gcacgcagc cattcttttc tgaagcaaca 300
 caagccatgc ttt 313

<210> 20447
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-H2

 <400> 20447

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 aagatggcgg acttgtttac agactatgct gacttctgtt ttaagacctt cggcgatcgc 120
 gtaaagcact ggtttacatt caatgagcca aggatagtag cgctacttgg ctatgacaca 180
 ggggtcaaata ctcctcaaag gtgcaccaga tgcgctgctg gtgggaattc agcaaccgaa 240
 ccttacatag ttgctcataa ttttctcttg gcacatgcta ctgcagttgc aagataccgt 300
 acgaaatatc aggctgctca gaaggtaagg tcggaatagt cctggacttc aact 354

<210> 20448
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-H6

 <400> 20448

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accccgcgcg cccggcggcg ccccatccgc gcgtccatct cctcccccaa cccgccctac 120
 gacctgacgt ccttccggtt cagccccatc aaggagtcca tcgtgtcccg cgagatgacc 180
 cggcgctaca tgacggacat gatcaccac gccgacaccg acgtggtgat cgtgggcgcc 240
 ggggtccgcg gctgtcctg cgcgtacgag ctgtccaagg accccaccgt gagcgtggcc 300
 atcgtggagc agtccgtgtc cccgggcggc ggcgcggtggc tgggc 345

<210> 20449
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-052-Q1-K1-H7
 <400> 20449

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 tgtaatgttc agttactcgg tgcaaagagg aaaaatcttg ctggattttc tactgccact 180
 tctcagtttc gtgttggtta tcttgaacaa actgaagtat ttcagagcac cctccacct 240
 ttaaggactc gtgcctgcag acttattgct gcaaaatcaa ctctggcagc aaggattgat 300
 tcaattagag gtgatccaac tggaaaagct ggacggaact tgttagaaga aattcgtaag 360
 aagattgaga agtggcaaga acc 383

<210> 20450
 <211> 276
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-052-Q1-K1-H8
 <400> 20450

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 gatgaggaag ctggaggagg ctgtccgcag tgtccagatg gagggctctga ctagagagag 120
 caaatgaaca aagaaaagat tggatacggc atcaagaaga tgactatcat gttgacaatt 180
 gtcgacgac ttgtgtccat cgacactcta attgaggacc accttacgca agagccatc 240
 aatgagtacg tacagagtta cgacattggg gctttc 276

<210> 20451
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-H9

 <400> 20451

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 ctggaggagg ctgtccgcag tgtccagatg gagggctga cttggggagc atcaaagctt 120
 gtgcctgttg gatacggcat caagaagatg actatcatgt tgacaattgt cgacgatctt 180
 gtgtccatcg acactctaata tgaggaccac cttacgcaag agcccatcaa tgagtacgtc 240
 cagagttgcg acattgtggc tttcaacaag atctagagtt cagtttctga gattgggcaa 300
 cggcagcggc tcaactcgtc 320

<210> 20452
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-A1

 <400> 20452

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 tgtgaagctg ctcgatattg ttagagatca gcattcgaaa acgcccagct tgatctttga 120
 atatgttaac aacacagatt tcaaagtgtc gtaccaaca ttaacagatt atgacattcg 180
 gtattacatc tacgagttac tcaaggcatt agattactgc cattcacaag gtattatgca 240
 ccgagatgtg aagccccaca atgttatgat agatcatgag cttcggaac tccggctgat 300
 agactggggg cttgctgaat tctatcatcc tggcaaggaa tataatgtcc gtgttgcac 360
 caggacttcc aaggggcctg agcttcttgt tgacttgcaa gattatgatt actctttgga 420
 catgtggagt ctggg 435

<210> 20453
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-A10

<400> 20453

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tctctttgag gggaatcaag ggacttgctt ttacttgtct aggctccatg tctaagtggg 180
agccagtcac gtttcaggaa tctcttagct ttgttaagaa agtaaaggca cgtgactaca 240
tgctatacat atcattgctc gatgtgctca accggaatga tcaaaccct ctgcaagctt 300
acagcgagct ctgcgttctg tttcagcatc acgaagatct gttagcggag ctgtcgaagt 360
tcaggccccct cccatgccca aacaacgttt atacacacgg ctcgatttgg atgatcatat 420
tcctcatgcc ttttct 436

<210> 20454

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-G10

<400> 20454

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cacttgaaag gagacaagtc tcgaaccttc tattacatga gtcattggca gtagataaca 120
ataagctgaa gtaacattct caaatttctc tcatgggtata cagggcttaa tcctcatcct 180
caacaacctt agttcccaaa cctttgagac cctccggtgg gatctcagca actgtgacca 240
gggagtagag ttctctcttc gcgtcttcct catcgttccg gttgcgggca attctgacac 300
ggacacgcct tggcacactg cggataccac tgctccagat gtgcttggtg agcttcacgt 360
caatcaagaa gttcgcattc attttcatat acacgaacgt gtactgctat aaagttaact 420
acc 423

<210> 20455

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E4

<400> 20455

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tgcgcagcgc agccgcaacg gcgagtgcgc ggcgagctg atgcgcgcgg cggcgctctt 120

caaccgtag cttggcgcg gtcctggacc agctcaacgc gcgctttggc gccggcacct 180

tcatcgcggc caacgcgttc cgcgtccact tcgacttcgt cagcgatccg gccgccttcg 240

gcttcgccac ggccaaggac gcggtgctgcg gacagggccc ccacaacggc ctgggcctct 300

gcaccccgct ctccaacctg tgcgccgacc gcagcaagta cgtcttctgg gacgcctacc 360

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<210> 20456

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E5

<400> 20456

gttcaagaga tcagtgtatg gtggagttgt aggccctgtc ccaccagcac cagacactga 60

agggggtaat gacgaagtat cggttcaaga gatcagtga gcccagccct tgccttgaag 120

acggtgctca tttgccttaa agccccgctt tcttctcccg cacctgggtga tcttcacgat 180

gttggtgttg cacagcaggt ccggactgag tatttcctat ttggttctat ttttagtgca 240

ctataatatc acaagcgaag ctacaattgg ttgtgagcta tattggcata tccttcctt 300

ggatgtattc ccttgaacaa tgattcagaa caactgttta accattttct aaaggatcga 360

ctgcttatgt actcatgcag aactgcctaa ttgtgcctct ggctgaatag cagccaagta 420

agcatgacat gct 433

<210> 20457

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E6

<400> 20457

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tgcggactcc gctgcatcgc ctcggctcggc cgtcgtcata tcatgggtgt ccggctgccg 120
 gtgtgcgtgg tccgccgtcc tcgtcctcct cgtgcgggcg gccgtggcg gggagtacgc 180
 ggccatcttc aacttcgggg actccctggc ggacgccggc aacctgggtg tggacggcat 240
 cccggactac ctggccacgg cgcgcctgcc ctacggcatg acccacttcg gctacccac 300
 cggccgctgc tccgacggcc gcctcgtcgt tgacttcacg gcgcaagagc tgggcgtg 358

<210> 20458
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E7

<400> 20458

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 agtgcagttc tttcaagtaa cgcaagtaaa gttgttacca caatttcgga cctgtctacc 120
 atatttggtg tgtaactttt cattgtttat attgaaaaat ggaaatggaa cgcctcccat 180
 gattcatgtg attgtggaca atctggaagt ttgaactcat atcctgtggt gacttatgta 240
 tattgtacac gcacgttgga tcctcctctg aaattgactg gaatagtctc aac 293

<210> 20459
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E8

<400> 20459

ctcaagggtca tagctgggtg agacacgagc ttcactgtga catccaaggg tggagacgac 60
 gaggagtctc cagagctgta cacattcaaa tggacgaccc ttctgatacc tccgacaacc 120
 ctgctcctac tgaacttcac tggagtggta gctggcatct ccaatgcgat caacaacgga 180
 tatgaatcat ggggccccct gttcgggaag ctcttctttg cattttgggt gatcgtccat 240
 ctttaccogt tcctcaaggg tctgggtggg aggcagaaca tgacgccaac gattgtcatt 300
 gtctgggtcca tcctcctggc ttcgatcttc tcgctgcttt gggcccgat cgaccctttc 360
 cttgcgaagg atgatgggtc cctgttggag gagtgtggtc tggattgc 408

<210> 20460
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-E9

 <400> 20460

 atttcgtatg gtgccagtag cgctattgtt tgatttttgt ggctgctctt cttgtacagt 60
 accgagtgcg agagatgcat agtcatcgta tacataccaa tacaataccg tacctatagg 120
 tcttcctatt catgtggaag agtagaactt gtatccttat tagctgtcag taaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aggaaagcca aactaaaaaa ggccaaaaaa acaaaaaaaaaa ccagccacaa 300
 gaacgccgca caagcaaaaa aaaaaaaggg ggggggcttt a 341

<210> 20461
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-F10

 <400> 20461

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 cgctcctcct cctcccagcc gcagctggtc gcggcggcgg cggtcctggc agcggcgctg 120
 ctgctgctgg cggcgggggc cgggacggcg tcggcggcgg tgagctgcgg cgaggtgacg 180
 tcgtcggtgg cgccgtgcct cgggtacgcy atgggcagcy cggcgtcgcc ctccgcggcg 240
 tgctgcagcy ggggtgcgctc gctcaacagc cgcgctcgt cggcggcgga ccggcaagcc 300
 acctgcaact gcctcaagag catga 325

<210> 20462
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-F11

 <400> 20462

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cacacgcatg cagtacagaa ttaaacaggt gtgtggttgt gtgccctgga tctagctatc 120
tagttcttag tgacagcggc ctactcattg tatgagcacc acaactagaa taaggaccac 180
aaggacgtcg aggaggccat cggctacacg atgtacaact aggtcttccg c 231

<210> 20463

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F12

<400> 20463

atcacacttg actggagttt cgaacaaaca aaatgcctta caataagttt aactttgcaa 60
actgtgaaaa gttcactgat gccaggctac cagatattctt gcaattcctc aaaattctgc 120
aatgaagcat gccaaagagta ttgacttaa taccttgatt gcactatata aaatatcaag 180
acatagtttg agtcattgat tgatgacaaa gttatccata caatgtgttc aaagatgtca 240
tgttactgat gaatatcatt gaagaacttc catttacaat gtcacctatt cgtctgcacc 300
acagaaa 307

<210> 20464

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F2

<400> 20464

ggagagcagt caccaaacca aaccgctctc gagtctccat ccattctctc cgctcatgcg 60
cagctctcta gtctccagct ctagctagcc ttagcctcgt ccaaggagcg aaggggccga 120
ccatgagcgt ggtgatcctg gacggctcca cggcgcgcg cttcgtggcg gacgaggcgg 180
ccttcgcgcg cagcctggac gcgcggttcg ccgcgctgga cgccaacggc gacggcgtgc 240
tgtcccgcgc cgagctccgg cgcgcgctcg agtccttccg cctcctcgac ggcgcggtct 300
tcgggtccgc ccagccggcg ccgctccccg ccgaggtcgc cgcgctctac gacgccgtct 360
tcgagcagtt cgacgccgac cacagcggcg ccgtc 395

<210> 20465
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F3

<400> 20465

gataagaaaa tccttaagaa ggttctcaag gagggagaag gttatgagcg tcccaacgag 60
ggtgctgttg ttgaagtcaa aattatcgga aagcttcagg atggcgcggt gtttacaag 120
aaggggcatg acgaagagcc atttaaattc aagaccgatg aagaggaagt tattgccggt 180
cttgatcgtg ctgtgttgaa catgaagaag ggcgaggttg ctcttgtcac aattcctcct 240
gaatatgcat ttggttcaac tgagtcaaag caggatcttg ctgttgttcc acctaacagc 300
acagtaatat atgaagttga gcttatttca tttgtgaagg acaaggagtc gtgggacttg 360
aacaatgaag agaagattga ggctgctggg aagaaga 397

<210> 20466
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F4

<400> 20466

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tgccgctcta tcggatctcg gccggagcca tgggcggcgg tggcgcgcg ctgctgctgc 120
tggtgatgtg ggcgggctg gcgtcggcgg ccgtgtacga ggtgggcggc acgattgggt 180
ggaccgtcat gggcaacccc gactacgccg cctgggccag ctccaagcag atcgatcatc 240
gcgacactgt tgtgttcacg tataacaagc agttccacaa cgtgctggcg gtgagcaagg 300
cggactacaa gaactgcac gccaccaagc cgacggccac ctggtccacg gggaacgatt 360
ccgtcgtcct caacaccacg ggccaccact ac 392

<210> 20467
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F6

<400> 20467

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gggggagccc atggctcgctg cggctgctaa tttgctgcgc ggcaatggtg gccatcgcg 120
ttctcccca acaaggaggc caggccgctt gtttcgtgcc gacgccgggt ccagctccgg 180
caccgcccgg ctcctccgcg acgaacacga acgactcctc cgctgctcct cggccagcca 240
agcccagcgc attcccaccc ccaatgtacg gtgggtgtcac ccccggcagt ctccagccac 300
acgagtgcgg cggccggtgc gcggggcggt gctcggcgac ggctaccag aagccgtgcc 360

<210> 20468

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-052-Q1-K1-F7

<400> 20468

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gaaagtgtca gatgaacctg ctcccgagaa gcctgccctt gcgaagcaag ggggctccaa 120
tgacagggat ctgctcttg caagggtgga aacagagaag aggaactctt tgatcaaagc 180
ttgggaagag aatgagaaga caaaagctga gaacaaggct gctaagaaag tatccgctat 240
tctttcatgg gaaaacacan agaaagcaaa catagaagct gaactgaaga agattgagga 300
acaactggaa aagaagaagg ctgaatatgc agagaagatg aagaacaagg ttgcaatgat 360
acacaaggaa gccgaagaga agcgagcgat ggtggangca taacgcggtg aggaggtcct 420
ga 422

<210> 20469

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F8

<400> 20469

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gagactggtg aaccaacaaa caacctagga ttttcagatc cgtgcattag aactggccgc 120
 acttcattcc aaacaaccag atctactagt ggaggcaaga gagaaagagg aaacccgcct 180
 ctggttcatg gtcgagatgc atctagaggt attcgtggag gaagggggtg gtccataggt 240
 ttcggagggtg ggagtgggtcg tgggtggatc tctgttctg ttgaatcttt ggaggatgaa 300
 gcagaagctg aatctgaagc tcgttcagtt gtggatggag gaactgattt tgtacaacaa 360
 gcagccatgc ttgtaagaat gagaaa 386

<210> 20470

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F9

<400> 20470

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 cggggctcaa ggacgaggtg atgaagatca cgcccgttca gaagcagacc cgcgccggac 120
 agcgcacccg cttcaaggcc tttgtcgtcg tgggagacgg cgacggccac gtcggcctgg 180
 gagtcaagtg cgccaaggag gtggccaccg ccatccgagg cgccatcatc ctcgccaagc 240
 tctccgttgt tcccgtcagg agaggctact gggggaacaa gatcgggcag ccgcacaccg 300
 tgcccttgca ggtcaccggc aagtgcgggt ccgtcacctg gcgcat 346

<210> 20471

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E3

<400> 20471

agccactggc ttgacaacct catgcgtagc ctgtgcagca ctttgtggct cacagtggaa 60
 gggaacataa ccgtagcagg gcatttgtac aaaagcagta tggtagtatg gaggaggaat 120
 aatcattgga gaaagatagg ggggcatggc tcctggcatc accgttctg cctctccagc 180
 aattgaactt gtggtatctg agtcctgttc cataggctga gatgtcatca ctggggctga 240
 aactggaact gggacctgaa ctggcgatgg aactgaagca gacactttca caggcacagg 300

aggtaccaca gtagctggag agaccacagg tgcaggcagg gct

343

<210> 20472

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-C4

<400> 20472

ggaatcccgg tgcaccacgc gtcggacacc gttcatggc ttctctccgc ctccaaaaca 60
atgctcgtc ctccgagact ccagctccca ccacccaaac cccctcgata tccaagaaa 120
tcctcgcaag aaccaacttt tgggtgcccc tgccggccaag attgccaacg cctccgaaat 180
tccggttctt cgcattccca ctagcacttc caaggccgca atcctggccc agaaggccgc 240
gctttggcgg gacgcccttg tccccgttgc cgccgccttc gcgtcctgtc cgctcccttc 300
cctcgcgggc gagggcgacg ggaaagttag cctcgagtcc atcgtggtgg caatcgacga 360
cttcaacaat cgcaaccctt tcttcgtggc tggggtcgtg ttcgtgtggc tagtgg 416

<210> 20473

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-C5

<400> 20473

cggacgcgtg ggaaggccaa tcccagacag tggtagcga cctcgagcgc tggcgccggt 60
gaccataaca aagaggaagc cgcggttagc ctggtagcgg cagcagtagg gggatatatg 120
cgtaagcgtt cagcggcgat gagaccgccc ctttcttcgg cttccttggc gcctccgctg 180
cgctcgtctt ctcatgcatg ggggcggcgt acgggacagc caagagtggc gtcggcgtgg 240
cgtccatggg tgtcatgcgc ccagagctcg tcatgaagtc catcgggccc gtgggtcatg 300
ctggtgtact cgggatctac ggccctcatc tcggcgtcat catcagcact gggatca 357

<210> 20474

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-C7

<400> 20474

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tccccacccg cccccggatt ggcgctgccg caccagatc ttccccaccc aaatcgactc 120
cgccatcgcc cggatccacg cagagccgtc gcggatcgac gtgctgccgc cacagattgc 180
gcgctgtcgt acggatcgag agacaccac cgcaagcctt ccgcgctggc gccgttcggg 240
aagtaaggag gctacggaga gggcacaagc tggggggtgt cgaactccgt ggagaacgcg 300
cgggcggtgg atgcctagct ctggtgggag ggtgaggaaa atcaggttca tcgactcgct 360
gctcctnctc gaaagcagtg gaccacggg ca 392

<210> 20475
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-C8

<400> 20475

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aagaagacta gaaccgaacc tgaccatgtc gctgatccgc cgcagcaacg tgttcgatcc 120
cttctccctc gacctctggg accccttga gggcttcccc ttgggctccg gcagcagcag 180
cagtctcttc cctcgttcc cgcgaccag ctcggagacc gcggccttcg ctggcgcgcg 240
gatcgactgg aaggagactc cagaggcgca cgtgttcaag gcagacgtac cggggctgaa 300
gaaagaggag gtcaaggtgg aagtcgagga cggcaacgtc cttcagatca gcggcgagcg 360
caacaaggag cangaggaga agacggacac ctggcaccgc gtggagcgg 409

<210> 20476
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-C9

<400> 20476

agctagccgc gccactcctt cgtgtagcca tcagccttct catcgccacc aatggccact 60
gccgaggtcc agaccccgac cgtcgtggcg gccgaggaag cgcccgtggt ggagaccccg 120
ccgccggccg tcgtgcccga ggagtctgcc cccgccgagg ccgaggccga ggccgaggct 180
gctgctcctg ctgatcccga ggagcttccc gcggccgagc agcaggcagc cgccgaggcg 240
gaggccgcgg ctcttctggtg tgccgaagag cccgtcgcgg ccgaacc 287

<210> 20477

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-D1

<400> 20477

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cgcggcagca actcggctgg cggacgcttg ctgccaacc tgaccattgg tttttccgat 120
tctttgtttg tttgtaaccg ttacgctcac caccaccttc gcctcctgca caccgcgcca 180
gccaaaccac tcccaccgtg gaataaacct cgcaaattgc cgaactg 227

<210> 20478

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-D10

<400> 20478

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gccgacacta aacctgagca ccaacgtgcc ggtggacgcg gtggtcgccg ccgacatcct 120
cagggactgc tccaaggccg tcgccaggat catcggaag cccgaatccg tacgtcactc 180
ccgcccccca cccgttcggc gcaatgcctc ggtcgcacgt cccttctctt taccaatgcg 240
tgtaggctcc ctcccggtcg ctggtcagcg gcggcttggc tcagtgcctt ttctgatgaa 300
acgaaacatt cccacgtgc tgcgctgcgg cctgcggtgc aatatgtcat ggtgtcggtc 360
aacgggtcgg tgcccatg 378

<210> 20479
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-D11

 <400> 20479

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 agcatgcaag gttgactgca ttggacttgt gtgcgtactc tagtgttgag ggtgctggaa 120
 ctccatttct tcttgggtca ggagatgaga tggatacttt caccagaggt gttgaagaag 180
 agactcttaa gaatacactt aaatgtggtg ttggctatct gcatgagggt ctaagtgagc 240
 ttgatcagga acttgtaacc cagctgttcc ttgggtggag gatccaagtg tgtgttgcaa 300
 gcagcacaat gtgttgggg 319

<210> 20480
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-D12

 <400> 20480

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 gccccgcgga gaagaggagg cagcgcgctc tccgtccgcc atggcgggct cttccgaccc 120
 cgacaagctc atgagcaaag ccgacaaact aacaaaattg agttttacaa gatggaatgc 180
 tgattggaaa agcgcctacct ccttgatga gcaagctgca attgcgtata gggttcagaaa 240
 ggacaatgag aaagcaaaag atgcttttga gaaggcctca aaaggacagg aaatgatctc 300
 ctccatggg gacgctgcta agcatatgga atctgctgct gctttaacaa aggagcttgg 360
 gcgctggaat gaagtatctg atttctatca cagagcttca aaattatacc gggaatgtgg 420
 aaggccacaa cctgcatctg atgctct 447

<210> 20481
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-D5

<400> 20481

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gagagatatg gcttccgcgt tgtggtgttt tcatagagct tcagaaaagg gacatgctgg 120
tgcagctatc gcatatggat ccttgcttct taaagggtgt gaaatacctg aagttattac 180
aaggttcaac tcaggcaaga gtccatcaac tgggaaaatg cggaaaagga cccaacagca 240
ggatccagta aagctagcga aagaacagtt tcaaattgca gctgaggcag gctgtgatct 300
cggctctgcgg tgggtgaaga ggcttgaagc ttatgaaaac caagaagaaa agctaaagca 360
ggttcagcaa tgatatccac tgaagaatc ccattgcatt tgcgcatta cag 413

<210> 20482

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-D6

<400> 20482

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gggaagggaa gaacggccca gcaatgccgc tctgcagctt ctacgcctcc acctccgttc 120
ccgtcgtcaa gccccagcag tccgtcgcct cgtccaagcc ccccaccacg gcggtggcct 180
ccgtggcgac aactgtgccg atgcgcagtg cagcgacggt gacgccagcc gtggccacaa 240
caacgagcct agcgtgtct ctgcacctgc cggagctgcc gtcgcaggtg aaggacaaga 300
tcctgagcct ggagctgatg ggcgtggact atgggcgcgc gctggagcag aaccggcg 360
tccgcgacgc 370

<210> 20483

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-D7

<400> 20483

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agtttagttg cagtagtcaa tccacaccaa gaaaacacaa tgaagtgggc agagtccaat 120

ggctacaagg gttcttttga tgaaatctgc aaacttgaag gactcaaaga gtacatcctg 180
 aaagagctgg cagccgttgc gcagaagaac aagctacgag gcttcgagta catcaaaggc 240
 gtagtggttg atcctgtgcc ttttgacatc gagagggatt tggtgactgc aacaatgaag 300
 aagaagagaa agaatatgct gaactattac cagtctgaga ttgacacaat atacaaaaag 360
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<210> 20484

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-052-Q1-K1-D8

<400> 20484

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 acccttcacc ttgttctccg cctcaggggt ggtatgcaga tctttgtgaa gaccctgact 180
 ggaaaaacca taaccctgga ggttgagagc tcggacacca tcgacaatgt gaaggcgaag 240
 atccaggaca aggagggcat cccccggac cagcagcgtc tgatcttcgc cggcaaacag 300
 ctggaggatg gccgcacctt agcagactac aacatccaaa aggagagcac cctncacctt 360
 gtgctccgtc ttcgtggtgg tcagtaagtc atgggtc 397

<210> 20485

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-D9

<400> 20485

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 tgatggcccc atttgcagag actcttggca gtaagtatag gaaaacatgg cttcgacttg 120
 tccatcgtag tttggagctt gcaggtcctg cgtttatcaa atggggccaa tgggctgcaa 180
 cacgccctga tctgtttcca agtgaccttt gtactgaatt gtcaaagctg cacacaaaag 240

caccagctca cagctttacc tatactaaga aaactgttga gaaagctttt ggtcgaaagc 300
tatcagacat ttttgaaaat ttt 323

<210> 20486
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E1

<400> 20486

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aggaaataga ttcataccag cttatgtatg aggaggatcg cccaaagtgc attccgaaac 120
gatttgagtg ccttcgaagt gtacctgcat atgagaaggc gttgagggaa ggttttgatc 180
ggtgtctaga tctttatcta tgcctagaa cccgcaaaaa gcgtataaat attgatcctg 240
agtcactcaa gcccaagtta ccaagtaaaa aggatttgaa gccatacccg aaaacttggt 300
accttgagtt caagggccat a 321

<210> 20487
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E10

<400> 20487

cagcaagtca gcaacctacc tagctagagc tatcactata tcagtatcag gtacctagac 60
ctagcagcag ccacaccac accgtacgtc ggcatggcta ggtggtcgtc gtcagctctg 120
gtcgccgtcc tcgtggctct ggccgcggcg gtggcgtgct ccgcggcgcg ccccgcccc 180
gcgcagcagc agcaggcggc agaggacgtg aagcggcccg acacgctgca cgaggggacg 240
gtgctgatcc cggggatggg gcgctacgag atcggcagcc actacatccc ggacatcggg 300
cggctggacc acagca 316

<210> 20488
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E11

<400> 20488

acgcacccgg actccgtcga cgccgcgggt atgggtcaga cgctgcacga ctgcgaggcg 60
cccgggtcca aatgcgagag gaacgcgtgc gccacgtcgc tggaatccat ggtggacttt 120
gccaccgtca gcctcgggac cagccacgtg agggccgcgt cgactgtcgt ggtgagggaa 180
ggctcgccga agcaggagta caccgtgaca ggcgtgaagc gggctggcgg ggggcgcctg 240
gtggcctgcc acgcggagcc gtacgcgtac gccgtgttcg cgtgccactt g 291

<210> 20489

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-052-Q1-K1-C2

<400> 20489

cgcgtgcgaa ccaagcagac ccagcagaa gaagcgaagt cgtcgccgga gcaggaggaa 60
gagcgagcag caagatgtcg tggcaggcgt acgtcgatga ccacctgctg tgcgacatcg 120
aaggccagca cctcagcgcc gccgccatcg tcggccacga cggcagcgtc tgggcacagt 180
ccgagaactt ccccgagtta aagcctgagg aggttgctgg gatgataaag gactttgatg 240
aacctggaac tcttgaccca actggtcttt ttgttgagg tacgaagtac atggtgatcc 300
aaggtgaacc tggagttgtc atccgaggaa agaagggcac tggaggcatt actatcaaga 360
aaactggcat gtncctgnat atcggtatct atgatgagcc aatgactcca gggcaatgca 420
atatggtggt gg 432

<210> 20490

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-A6

<400> 20490

attaaatatt atggaccggt tcgcagtgtt tttctgtttc tgcctttcac tcttgtttgc 60
agcagttccc agttggtgta gaactagtag ctagttttga tagttgctag atgatgctat 120

gccatatctt gttatggcta ctaactccat tggttttgaa cagaaaagga gaacttgtgc 180
ctctatggct atccccgatga gacatgggag gttaccttgc cagctgagga agtgccccc 240
gagatccctg aaccagcatt aggaatcaac tttgctaggg atggcatgaa tgagaaggac 300
tggctggcgc tagttgcagt ccacagtgat tcctggttac tatctgtcgc attctacttt 360
ggtgcacggg ttggatttga cag 383

<210> 20491
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-A9

<400> 20491
ccagtatgct ttgcatgggtg gctggaggga tatgactata tgagtttacc tatatattat 60
ggactatcct tgttggcgta ttgttttatt aacgattata tttagccagt tataatccgt 120
taggtgagca gattgtttgc ttgggttacc agatctcggg agccagtggg tgcggttcca 180
ggtcttctgt tgatgactta tcacaagatg tgcttgtgat tcccgtgtat gaggaattgc 240
gacatcgtag aggcgtaggc tatgttcagt agatcgtgcc ttgcctcgtg tataataata 300
cntgtttgta tcgtagacaa tattgggttac agagatgatg atgagtaagc ttgtggacat 360
aagcagtgcc ttatatcacg gttagggtttt ggcctttggg tcgttggggt 410

<210> 20492
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B1

<400> 20492
gaaggatagc tatctgtatt tttgatgatg ttgcagagca atgccgtgaa tcagctgtga 60
agtattatga cacatacctt cctttccttt tggaggcatc aaacgatgaa aattcagatg 120
atcggcaggc tgctgtctat ggtgtgggtg tatgtgccga gtttggtggt catgtttttc 180
gccctctagt aggagaggcc ttatcaaaat taaacaatgt tataaggcat cctgatgcac 240

gacttcctga taatatcatg gcatatgaca atgctgtttc ggcgcttgga aaaatatgcc 300
aatttcacgc ggatgggtatt gacgcagctc aggttggtcc agcctggctt agctgcttgc 360
ctataaaaga cgacaagggtt gaaactaaag ttgtacatgg acagctttgc tccat 415

<210> 20493
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-B11

<400> 20493

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gaatcacttc atctgatatt gctacaaagg cgctggaagc taaacgtgcc aaagtcattg 120
gacaagcatt agctgggtgta cccttggtgc agcttggtcc tgagagtaga tttcctgggg 180
tcccttacat tgtttttcct ggtaatgttg gtgataacag tgctcttgct aaagtgggtga 240
aaagtggggc ttccccatct agaagttcta caaaagaaat tcttcttgat gcggaaaagg 300
gcggnatgct 310

<210> 20494
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B12

<400> 20494

cgcacccttg cggattacaa cattcagaag gagagcacc tccacctggt gctgcgcctc 60
aggggaggaa tgcagatctt cgtgaagaca ttgactggca agaccatcac cttggagggtt 120
gagagctccg acaccattga taatgtgaag gccaatcc aggacaagga gggatatcccc 180
ccggaccagc agcggctgat cttcgccggc aagcagctgg aggatggctg caccttggtc 240
gactacaaca tccagaagga gagcaccctc catctggtgc tccgcctgag gggcggtatg 300
cagatctttg tgaagacctt gactggcaag accataacct tggagggtga gagctctgac 360
accatcgaca acgtgaaggc taagatccaa gacaaggagg ggattcccc agaccagcag 420
cgtctgatct 430

<210> 20495
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B2

<400> 20495

cgccccgctc gtgctccgcg tgcgctgcct tggcgccgca cgctgcgctc ccgctcgccct 60
ctctcctcgc cccctcgccc tctgccgcgc gccctcgatc cgcgccccctc tcgtgcgcag 120
ctcggccgtg caggggccac gcggcggcgt cagcgttgca cggcgccgca gggcggaggc 180
ccccgagcgt ggcggcgatg tcgtcgtcga cgccgccgcc gggatccgtg cagaagtcgg 240
aagaggagtg ggaggccatc ctcacgccgg agcaggtaa catcctacgc ctcaaaggca 300
ccgaataccc tggaacgggt gactacgaca aggttcttga ggagggcatt tattaatgtg 360
ctggatgtgg aaactcccta tacaaatcat 390

<210> 20496
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-B3

<400> 20496

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aactcgccgn cggcgctgca gcccgtagcg cctacctcgc cggcgctcggg gtcgcgggtcc 120
tcctcgctgc ctcttgctc ccagtagccg agtcgtcctg cgtgcgagat aactcattgg 180
tgagagacat aagccaaatg ccgcaaagca gctatgggat tgaaggattg tcacatataa 240
cagttgctgg tgcgctcaat catgggatga aggaggtgga agtgtggctt cagacaataa 300
gtccagggtc aaggacgccg atccacaggc attcctgtga agaagttttc actgtcctca 360
aagggaaggg tacgctctng atgggatcaa gtcactaaa gtacc 405

<210> 20497
<211> 361
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B4

<400> 20497

cggacgcgtg gccggccccg tgggttgac cactgcaatt aaaataccaa agaaccagta 60

tgtatgacca gcacccaaat gtaccaccac caacaattta accatgacac cagaccatat 120

gtatatgaaa ggttcccccg gtacactctt tattcatcct tgaacacaaa atctagacgc 180

cgcctctcac cctcgggtgt aaaaccaatg agccagacat gatctcacia tgccaactaa 240

aaatcacaa atctgagtag agttatgac atcatattct attagcccat atttccaaga 300

agtcgctcca ctgcagcatg aacattttca gcggtagcgg ccaaaggctc gggatgttct 360

c 361

<210> 20498

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B7

<400> 20498

ggccaggacg tcgccgtcaa agtcatcccc aaggccaaga tgacaacagc tatcgccatt 60

gaagatgtga gaagagaagt gagaatactg agttctctgg caggccacag taacctagt 120

cagttctacg atgcttttga ggatgaagat aacgtgtata tagttatgga attatgtaaa 180

ggaggtgaac tgctggacag gatattagct aggggtggaa agtactctga agaggatgca 240

aagggtgtta tggtagaaat tttgggtgtc gtatcatttt gccatcttca aggtgttgtt 300

catcgtgac tgaagccgga gaatttcctt ttctcttcaa aggacgaaaa ctctcccttg 360

aaggatcatg attttggcct gtctgacttt gtgaagccag acgaaagact aaatgatat 419

<210> 20499

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B8

<400> 20499

aggaaggcaa ggcgtgatgc cctcaaagaa tctggacaaa gttttgagac gagttctgtt 60
 gctgcatcaa ttgatagcga taaagttctc tctgaaaatg gagggttgga gcatgggtctg 120
 acttcaacag gtggcctctc ttctgtccct gagaaaatca gtgcaagttc tgatgggtctt 180
 gaacttcaag cagatgatga ccctgaaatt gttggagaac agttgcattc tgaccagcta 240
 tcttatggtg atgatactga tacatgcacc aaagaattgg ataaactaga tataaaaagt 300
 gaggatgagg gaggtgacga tgcacattcc gtagactatg agagcagtga gcagagttgg 360
 gccctgaggt ctttatctga atcaacta 388

<210> 20500
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B9

<400> 20500

cgttcgtatc cttctctcgt cttcctctcc ttctccaatt cctctccgag agcttctagt 60
 ctagcactcc gttaacaatc gagtaatcca cggcgcgga gtaatgtact tatatgtgct 120
 accaggtagt gagcagacga aggctcggca gctgagcgac gggcaggccc ggaagcggcg 180
 gctgagcgac gggcaggcgc ggttcctgga gctcagcttc gggaaggagc ggaagctgga 240
 gacgccccgc aaggtgcagc tggccgccga gctgggcctc gacgccaaagc aagt 294

<210> 20501
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-C1

<400> 20501

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 tttgttcttt taacaatatg tcgaggagg agaattgta catggccaag ttggctgatc 120
 aggctgaaag gtatgaggag atgggtgagt atatggagaa ggtggctaag actgtagatg 180
 tggaagagct cactgttgag gagcgtaacc ttctgtctgt tgcatacaag aatgtgattg 240
 gggctcgccg cgcttcatgg cgcattgttt cttccattga acaaaaggag gagtcccgtg 300

agaacgaaga gcatgtgaac cttatcaagg aatatcgtgg caagatcgag gctgaactga 360
gcaatatctg tgatggcatc ttga 384

<210> 20502
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-C10

<400> 20502

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ctggaggagg ctgtccgcag tgtccagatg gagggctctga cttggggagc atcaaagctt 120
gtgcctgttg gatacggcat caagaagatg actatcatgt tgacaattgt cgacgatctt 180
gtgtccatcg acactctaata tgaggaccac cttacgcaag agcccatcaa tgagtacgtc 240
cagagttgcy acattgtggc tttcaacaag atctagagtt cagtttctga gattgggcaa 300
cggcagcggc tcagctcgtc aagtttgtgc tgggatgcc a gtttatccct tctagtctat 360
tacagaaatg ttgntcggag ctgagtctat tataaacatc ttggtcttga gttattgggtg 420
agtggtgcca agttttttca atat 444

<210> 20503
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-C11

<400> 20503

ggccatacta tcttgggtcca tgctgctgct ggtgggtgctg gctcactcct ttgtcaatgg 60
gcaaacgccc ttggtgccac tgtcatcggg actgtttcca atcaagaaaa agccgctcag 120
gcagctcagg atggatgcc a ccatcccata atttacta gcgaggatgt cgtcgcaaga 180
gtcaaggata ttacatcagg aaaagggtgc aatgtcgtct atgattctgt tggaaaggat 240
acatacaagg cttccctgga gtgcttggcg tcccgcggct tcttgggtgc gtttgggcag 300
tcgtcaagca aacctgaccc aatcccaacg agcgacctgg c 341

<210> 20504
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-A5

 <400> 20504

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 gttctttccc ttcgtcctcg cattgctgtc ttctcgggtg taaaaatcag aggatcaatg 120
 attgtttgct tggtgcttca aacgcaaatt actatctgtc ttcgtcttct cccctctctc 180
 ctctgaattg ttctgtcag tggggcaggg catacaatac attatccccg tgggccccgc 240
 ctcgaggccc gcccgacgaa gggagaaaga aagaaaatcc aagtgtgctg gccacttggc 300
 cgctagtata gttcagcttg ttcgctgcgg cttgctgcgg ctgcaatccg gctgcggctg 360
 eggcttctac agtatcttct tctctatgga ttgcagctgc agcagttcaa acagctggca 420
 cagtgtcgg 429

<210> 20505
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-052-Q1-K1-C12

 <400> 20505

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 tccgtcggcg gtttcggcgg cggcgaccac gggcttacgc acattcacct gtacgtgcac 120
 gagacgtaca ccggggcgaa cgccacgggc ggcggcgtgc tggagtcctc ggttggcgcc 180
 aacttgctcg tcgggagcat gggcctgggt gaccaccaga taccct 227

<210> 20506
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-G8

 <400> 20506

acggacttcg acggccgcaa catcgctgac tccgagaagc tgatggagat cggcgttcac 60
 cgtctactcc atcggcaagc cgatcgacgc ctggctcaag gacatgcccg cggtcgccta 120
 atcgaccccc atttaccat ggatcggatt ccgggaagga agaggagaga agctggttga 180
 ccgctcttta ttacagttag tttctgcagg ctacgctacg cgattatgta tagtgtcagg 240
 catgaaaaac ggttcggacg gactgctagc attgcctgct gtcggtgac ctcgtgtcgg 300
 aggacgtctg tcgatgtaca attacttcag ccccttgtgt tcggctagag gaagt 355

<210> 20507

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-G9

<400> 20507

ggacgcgtgg gtcaactttg atctattctc tgccaccaa gagatggaaa aacagggatg 60
 tgatgagttt gactttgtgc gcgaagcaag agcaatggaa agaatacgag aatttctacg 120
 tgtcactaat aagaaacctc cggttatggg gcctcgtgtg attcctggga tggtagcag 180
 agaagttttg ataatggaat ttatcaaggg gacccaata atgaatcttg gcaatgaaat 240
 ggctaaaagg ggcataagtc ctgggtgtaa gattgcagca atggcaaagc agaagatttt 300
 gtcagatctt actcttgcac atgggtcaaat gatcttgaaa gatggctttt tccatgcaga 360
 accacacca ggaacattc tta 383

<210> 20508

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-051-Q1-K1-H1

<400> 20508

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 ctgcgcgcgc cgtccgcccc ggcgggttcc tccgacgtcg acgcgcgccc gaccaagcgc 120
 gtcagcctct cgcccagacg cccgtcgggg tcggggtcag ggtccgggtc cgggtccggg 180
 tccgaccgta gcgacctgag ccacggcgcc ggccagggtt accgccccgt ggcgcggtcc 240

ggtaggggttcg agccggcgga ctgcgcgatg agccgtccgc tggaggaaga ggaggaggaa 300
aaggaggacc cgctcacctn cctcagcctc tcgcttcccg gcacggacca gcggttccac 360
cacgaccgcg cccacagcca gttccaggag ctcccggcgt c 401

<210> 20509
<211> 250
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-H10
<400> 20509

acggcaacat ggtatatgga gctagggttt gcaggcgccg ccactcgagc tgcgacttgc 60
gcgtgtgatg aagaatgctg tcacccagtc tagcccggag cctgagcagg aaaccgtggt 120
ggagaagcgc gtggaggagg cggatccatg gagcgcattc cggcggtcgg tcccctggca 180
gttggcgtgt cgagctcatc cgcgcgctct ctactcgtcc gcgcctgtgt cggtcgtcgt 240
tcccgttctt 250

<210> 20510
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-H11
<400> 20510

atcagtcaga agactttatg ttcagggcaa agagatcaat ggtgctggta tcaatgctag 60
ctttgctggt caccaggatg ttgatggaag ggcaacagat gtagctctag ggtggtcagt 120
agcttttaggt tctcctttca catttgctac tactctagag caggagtacc ggagtgcacat 180
ttttggcgag cgaggtatct tgcttggtgc tgtccatggc atggtggagg ctcttttcag 240
gagatacaca gaacaaggaa tggatgagga ctacgcatat aagaatactg tagagagcat 300
cactggaatt atatcgaaaa ctatttcaaa gaaggggtatt gctggaatgt ataactc 357

<210> 20511
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-051-Q1-K1-H2

<400> 20511

ggaacttttc ctccaagcat caaacttcca cttgctctaa atttgaggtc acaaccagtg 60
gcgggttgga gcatgatata cttcatgtgc gcagaaccag atgggtgttt gtcatatgat 120
gtaagcaccg ggatttggag gcaatttgcc atcccactgc cactgcatct gactgatcac 180
acacttgccg agttccaggg aagggttatg ctgggtgggtc tgctgtgcaa aaatgcagcg 240
acctgcatct gcatatggga gttgcagaag atgactctcc tctggaaaga ggtggacaga 300
atgccaaatc tctggtgctt agagttctac ggtaagcaca tgaagatgaa atgcctgggc 360
aacagtgggt tgctcatgct ctccttgaag gcgaagcata tgaaccgnct tgttacatac 420

<210> 20512
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-051-Q1-K1-H3

<400> 20512

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gctctggtga tgacgtcgga gtcgatcgcg cccaactggt acgcgggcaa caagcgcacc 120
ttcatgctgg gcaactgcct gttccgctcc ggcggtcgcg cctacttctt gaccaacgac 180
ccgcggctcc ggccgcacgc caagctccgt ctccgccacg tgggtgcgcac ccacacgggc 240
gcctncgacg aggctacaa ctgcgcgctc cagatggagg acgaggccgg ccgcccgggg 300
ttccacctgg gcaaggagct gccgcgcgcc gcggtgcacg cttcgtgca caaccttcgc 360
gtgctggcgc cccgcgtgct gccgctcccg gagctgctcc gnetcgctg cgccaccctc 420
tcggcgcgcc tggcgcgc 438

<210> 20513
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-H4

<400> 20513

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tcctgtagta caccagaatt ttgaaccagc caacgtgctc ctcgacaata gatgctcagt 120
gcgtgttgct gaatgtgggc tggcacaatt gatggcgctc ggttctgtta cacagctatc 180
aggccgtatg agagctctac tcaattatga agcacctgaa atccatgaat ctgagccttt 240
tactcgtcaa agcgacgtat atagtttggg tgtggtgatg ctagaacttc ttactggtcg 300
taagccatat gacagttctc gtccacgtga tgaacaacat cttgttcgat gggctaattc 360
tcagcttcat gacatggagt ccctgtcaaa gatggttgat ctttctatcc gaggagagtg 420
ttctgtgata ctggtgtcac gttttg 446

<210> 20514

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-H5

<400> 20514

acgtgattca atgctgcatg tgcactacc agtggactt gtgtatatga ttttttgttt 60
atactacggt tgtcagcgtg ctcggggaag gct 93

<210> 20515

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-H6

<400> 20515

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tcacaaccgg cgggggttaa caccatgata gactgcatgt gtcacaacc agatggagta 120
ttgacatata atgtaagcac ctgaatttgg actcaatttg ccatccact gtcactgcat 180
ctcactgatc acacacttgc cgagatccat agaaaggta tacatatgtg tctgctgtgc 240
atatatgcat ttacctgcat atacat 266

<210> 20516
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-H7

 <400> 20516

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 ggcctcgcct gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180
 gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
 gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
 ctggacggcc gcaacatcac cgtcaacgag gccagtccc gcggcggccg tggaggctgc 360
 ggcggcggcg ggtacggtgg tggccgt 387

<210> 20517
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-H8

 <400> 20517

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 atctgcatga cacctctgag gctagggtag ttcaccagaa tggatgaacca gccaacgtgc 120
 tcctcgacaa tagatgctca gcgcgtgttg ctgaatgtgc gctggcacia ttgatggcgt 180
 ctggctctgt tacacagcta tcacgccgta tgagagctct actcaattat gaagcacctg 240
 aaatccatga atctgagcct ttactttgtc aaagcgacgt atataagttt gcgtgtcgtg 300
 atgcttgaac ttcttactga gtcgaagcca tatgacaagt tctgttcacg tgatgaacaa 360
 catctctgtt catgggctaa ttctcagctt catgacatgg 400

<210> 20518
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-H9

<400> 20518

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aagtgaggtg cctggaagat ctgcgcaaga aagagacgcc ctacaagaag atcaagacat 120
caaggagtag cgtcgcgtta gacgaagagc aggactgtca tacgccggcc ggctcgtacca 180
acaggaaaac ggcccgaag tgggtggcca aacttgtggg ttcggaccaa cggcaaaaac 240
atgctgtaca gacttcccc agtcctgtta acacaaaagt ggataccgtc agtaggcttt 300
aggacatgac tggatgatat ctatccaggg tttcaccttt gggttttttt ccttctccat 360
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<210> 20519

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-A10

<400> 20519

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gagtgttaagg gatgggtgga cttggagtcg acgattgtca agtaccgagt ataattgacca 120
gatatatccg aagggtgaacg ccttggtggc taggcatacc acattcttta tgacagtggg 180
ccctgttgca agtgctctgc tacatactac atccaagatg ggctacatag gcccaagttt 240
cagggtgctga tatcttaaac aaaatcaatg ctatgggtga gtgaaactct ctaattctatt 300
ccatcatgaa actgtgttgg ataataac 329

<210> 20520

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-A11

<400> 20520

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atcgtacgtg agcccggccg agcgagagcg agggagaggc atggctgctc cgaagctcgc 120
gacgctggcg ctggccgtgc tcttggcggc gaccgtgggt gctcccccg cgcgggtgcg 180

cgcggcgatg tcgtgttcca ccgtgtacag cacgctgatg ccgtgcctgc cgttcgtcca 240
 gatgggcggg gccatggcgc cccagccgtg ct 272

<210> 20521
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-A12

<400> 20521

cccacgcattc cgatcaaaca cattcaatat accgatatt accgtaccac tacaacagcc 60
 agttctaacg cgatgggtca caactcggac tcgaacccat ctgcatatac accgacaaac 120
 gatgaaaaag cccctaacac tactgaaggt catataccca aatccgaaac tctcctgcac 180
 gactgtaagt cctcctgcaa ggacgcctgc tagtataaca gcaagaataa cgcccataag 240
 ctca 244

<210> 20522
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-A2

<400> 20522

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 acccagcagg gttgaatata tggctggagg agccaccag aactttatca gggttgcca 120
 agggatgctt aaaagtagtg gtgcaacaag ttacatggga tgcattggga aggacaagtt 180
 tggtgaggag atgaagaaaa atgctcaagc tggacagatt act 223

<210> 20523
 <211> 320
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-052-Q1-K1-A3

<400> 20523

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aagcattgga tagatgggag caacatgcgc gatctgctta tgaatatttt gagaaggaag 120
gcaaccgatc tatgggttata gatgattnag cttctgaatt gggcctcagt ccttcagtgc 180
cactgcatgt cgttctgcaa gattggatca ggcatacggg tgggaaatta agttttcttg 240
gatttgtaa gttgttgcac ggcattgcca gcaggtccct gtcaaagatg agatagcttg 300
cgataatctc taacgacagc 320

<210> 20524
<211> 444
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-051-Q1-K1-G7
<400> 20524

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tgagaaggat attaagaaac cactcttaag gactgactag aagaacatgg ccacccttat 120
ggcagagttt gacaagatta acacaaagct tggcattcgg aaggaggatc ttcctaagat 180
cgagaaagaa cttgaattgg agattgcca aagtgaagctg actgaactta agaaggaatg 240
tgttgaggca atggagactc aactcaagag ggaggagttc caagatgagg agatgcctga 300
tgtcaggaaa ctggacatcc gaaacttcct gtaggcctga tcgacgataa cctttgaggc 360
attgcaaatc acccagccca cctgtgattn tttttctttt ggttntgggt tcaagttgat 420
cggtgctgta agctacacct atga 444

<210> 20525
<211> 460
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-F2
<400> 20525

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aggctgggct ccaaactg cgctggctca cgcagcaaca tcagtgatgg gaccttggga 180

gacgctgggg aatccttgtg tgggagggaa cgaggtcttc agatcaacaa cgttcttctc 240
ccagagcaca tttgtcttgc cggttccagg gctgccgggc tcattcatct tcatggctga 300
tcggtggaac ccatccgata ttagagattc gcggtatgtc tggctgcctc tgacgatagg 360
gggagtccct gatgaagccg cagactatag cttcatgttc cctctctggt cccgggtgtc 420
catctactgg cacaaacggg ggcgtctccc tgaggagtgg 460

<210> 20526
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F3

<400> 20526

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aaacatgaat gcaccgacta tatattaaca tctgcttga cacgctagcc tccaaacact 120
gcgctacctc acgcatcaac atcattcatg ggaccttgat atactctcct caatccttgt 180
ctggaacgga actaggtctt catatcaaca acgctcttat cccacagcac atttgtctta 240
ccatttccag cgctaccgct ctcattcatc ttcacgctc accatctgaa cccatcctaa 300
cttaaagact cccggcatgt ctta 324

<210> 20527
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F4

<400> 20527

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tgttgcaaag aactttggag ttacagaatt tgtaaccca aaagagcatg acaaaccgat 120
acagcaggtc ctggctgata ttacagatgg cggcgtggat tacagctttg agtgcattgg 180
aaatgtttcg gttatgaggg ctgcactgga atgctgccac aagggtctggg gaacctccgt 240
catcgctggc gtcgccgctt ctggccagga gatcgccaca cgaccattcc agctcgtgac 300
tgggcgtgtc tggaagggaa ccgctttcgg tggcttcaag agccggaccc aggtcccatg 360

gcttgttgac aagtacatga aaaaggaaat taaggtggac gagtacatta cgcacaacat 420
gaacctggct gacatcaacg acg 443

<210> 20528
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F5

<400> 20528

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caggttggcc ttcttgacat agatatatgt ggccctagca tccctaaaat gctaggcctt 120
gaaggacaag atattcatca aagcaacctt ggctggtcac ctgtgtatgt tgagtccaac 180
cttgggtgtga tgtcgattgg tttcatgctg cctaaccag acgatgctgt catatggagg 240
ggtccccgca agaatggact gatcaagcag ttcttaaagg atgtcgattg gggggagatt 300
gactatcttg ttgtggacgc tcctccagga acatctgatg agcacatctc gatcgtgcaa 360
taccttcaag ccacaggaat cgatggcgcg ataatcgta cgactccgca gcaggtctct 420
ctgattgacg tgagga 436

<210> 20529
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F6

<400> 20529

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aggccggacg ttggggggac cggggctcga cgccagccgt ggatcgctg cggaggggga 120
caagcgtctg cctcatgtcc cgcgacggcg gggaataggg cgacggcgtc ggcggcgggg 180
atcggttgcg gcggcgtgac gaggcggctg cggcggcggc tcgggagggg ggcggcacca 240
tgtctcggt agtetgtggc aagaggtcct cctccatctt cgccgacgag ctctctccgc 300
cgtctccttc ctccccacac tcctcccacc agccggcggc caagaggtcc cgccgctccc 360
cctcgaccg cggcgggtcc gacggactcc gaccggaggc gctcgtcgac tatctacttg 420

ccctcttccc cgacatggat c

441

<210> 20530

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F7

<400> 20530

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aattggcctg gtgcttaaca ctattgctat tttctatgga tcgttagctg ccataccatt 120
tggtacgatg gtgggtgttt tcatcctgtg ggccttcac tctttccctc ttgcactttt 180
gggaactgtt gttggtagaa attggagtgg tgctccaaac aatccctgta gggatgaagac 240
tattcctcgc cctattcctg agaagaaatg gtacctcaca ccatctgtca ttgcgcttat 300
gggaggactg cttccttttg gtagtatctt tattgagatg tactttgtct tcacatcggt 360
ctggaactat aagggtctact atgtttacgg gttcatgttg ctggtctttc tgatactcat 420
cattgtcacc atatgtgta 439

<210> 20531

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F8

<400> 20531

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agcagttatc agagtaccaa accgtgtgac tgaaagcttc atcatggaca ccatccagcc 120
catctttaaa aaaaacaagt acttaagact tgcggtcatt ttctcttcag taagtttaag 180
gccaaaggag acgagtaaca aggacttggg tgcgactgct tgccttgcaa tgttcagtgg 240
cctcgaactg aagcatgaat attctgaagt cgccagaaaa atgttggata ggcttcaaga 300
attaagcaag aaatcagatg ggaaggctct ggcaatcgat ttgcggaccg acttgctgga 360
aaagaagagt tgcaagacaa ccagtggcgc tcgaagaaaa ggctgctata accctaata 420
ggctcctggct ttcctgagga gtgt 444

<210> 20532
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F9

<400> 20532

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cgcgtaaga cggactggtc ccacgcccc ttctccgcct cctaccgcgg gttcaaggcc 180
gacgcttgcg tcgccgtcgc gggcgggccg acccgctgcg gcgccaccgt cggcaccgag 240
ggcaccggcg cccccgcctc cgccgccggc gccggggact ggtacaacca ggagctggac 300
ctcaccctgc agcagcggat gcgctgggtg cagcgcaagt acatgatcta caactact 358

<210> 20533
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-G1

<400> 20533

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ggagatgttt ggaaaatatg gaaccataac tagtgctgtt gttatgcggg atagcgatgg 120
aaaatccagg tgttttggat ttgtcaattt tgaaaatgca gatgctgctg ctcaggctgt 180
tcaagagttg aatggcaaga tattcaatga taaggaactg tatgttgga gagcacagaa 240
gaagtctgaa agagagatgg agttgaagga gaaatttgaa aagaatgttc aagaggtagc 300
tgagaagtgc caaacacaa acttgatatt gaagaactta gaggagaaca ttgatgatga 360
gaaattgcgt gaactctttg ctgagtatgg caatattac 399

<210> 20534
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-G10

<400> 20534

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agggaagtac tgcggcctttc tagataagag tcataagagc attgtagaag attacacata 120
ctatgctaag gtgtgctttg ataacttctg cgacaagggtg aagaattggt tgacctttaa 180
tgagccccag acattttac 198

<210> 20535

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-G11

<400> 20535

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cgcggaagg tgcagctgaa gcggatcgag aacaagatca accgccaggt gacattctcc 180
aagcgccgct cggggctact caagaaggcg cagcagatct ccgtgctctg cgacgccgag 240
gtcgcgctca tcatcttctc caccaagggc aagctctacg agtactctac cgattcatgt 300
atggacaaaa ttcttgaacg gtatgagcgc tactcctatg cagaaaaagt tctcatttcc 360
gcagaatatg aaa 373

<210> 20536

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-G2

<400> 20536

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ggggatggcc gggatcggac cgatcactgc aggactggga gcctgtcgtt gtgcggaaga 180
aggcaccac cggcgacgac aagaaggatg ataaggccga caacgtcgcg cgccgtgccc 240
atgcggatat cgataccatg atgaagtaca acgctgttac aaaca 285

<210> 20537
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-051-Q1-K1-G3

<400> 20537

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gcggccaggg gcgagaggaa ggcgtgcgcc acgtcgctgg aatccatggt ggactttgcc 120
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tcgccgagggc aggagtacac cgtgacaggc gtgaagcggg cgggcggcgg gcgcctgggtg 240
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cgggcgtact cgggtgctgat gctgggcaag gacggcacgg ccgtggacgc tgtcgcgggtg 360
tgccacgccg acacgtncgg ctggaacccc aagcacgtcg tctggacccg cggcggctga 420
gagtggtcgc cgtttgcacg cact 444

<210> 20538
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-051-Q1-K1-G4

<400> 20538

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aaaggccgct catctacagc agctactgca cctggtaaag gttttggtat gaaattaggc 180
aagacacaga agacaaatca attccttgaa tctttgaaag ctgaaggaga agtcattttg 240
gaggatgtac aaccaagtgc agtttctaca aggtcatctg ctcttcacc aagtgaccct 300
gtcacagtaa ctatagaaga gaagctcaat gttgntgtta aaagagatgg tggattaat 360
aactttgatg ttcaaggaac acttgctctt caggttctca atgatactga tgggttcac 420
caattgcaga ttg 433

<210> 20539
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-051-Q1-K1-G5

<400> 20539

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gaggacgagc tcaagctcat cgccaaaatg atngaattgg atcccggtggg tgtccctgat 420
gactacgaat gtgaggtgat tgaagacgac accccaat 458

<210> 20540
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-G6

<400> 20540

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agacacagaa tacaaaacaa ttccttgaat ctttgaaagc tgaatgagaa gtcatttttg 240
aggatgtaca accaattgca atttctacaa agtcatctgc tcttacacca aatgaccctt 300
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<210> 20541

<211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-F12

 <400> 20541

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 gcggagaagg aaaccgataa gattctaggt gtgcacataa tggcacccaa tgctggtgaa 180
 atcatccatg aagctgtcat cgccttgag tatggagcat ccagtgagga tgttgctcga 240
 acatgccacg cacaccctac cgtgagcg 268

<210> 20542
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-D5

 <400> 20542

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 ggcaggttcc agggttcacc agctattatt acataccgtg tccccacaaa gacagctctt 180
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 aagaagtttg aatgggctaa gaggcttgat atgaaatacg ggtcacttgt gtctgttggtc 300
 tcttttggtg gactgtttat ctaccttggt gcgagcccg cgaagagcag ctcanaggca 360
 agcaagaaga gacgctgac tacttatagg tcgcagttga cgggtgtagct ggtgggttttg 420
 cctggaggaa ctctnggtag 440

<210> 20543
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-D6

 <400> 20543

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ttcgattcg attcctttcg ggtcggattt gtggcggagc tcttgatttg ctccgtccct 180
gccagaggag gagggccttg tggatcaggg atcgagcaag gaagcagcca tgagcggcgg 240
cggaagcgtg agtttccctg agatccagcc gtcggagctc gcattcccct ttgagataat 300
gaggcaaagc tcgtgctcca tgcaactgac caataggact gaccattatg taacattcaa 360
tgtcaaaaca accaacccaa aacagtactg tgtgcgtcct aaaattgggtg ttgaattaac 420
ctgctcaact tgcgatgtta cagtgc 447

<210> 20544
<211> 299
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-D7
<400> 20544

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cacactcgtc gtggggggaa tggtcacgga tgggtcatag gaatgggcga tctacggcgg 120
aaccggggtg ttcgccatgg tcaccggtgt catgaagaga agaaaccttg ccgccggtag 180
caacgacggg aactctgacg agcttgccct ggaagttttc tgcccgggtg ttggcgcatt 240
acagcaacca attagcaagc agcaggactt catctccttc gtcaccaaga tcggactat 299

<210> 20545
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-D8
<400> 20545

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gccctcgccg tcgttccgcc tccggaacgg cagcctcaac gcaactgcgc tcgcgcgcgt 180
gttcgacctc ttcgaccgca acggcgacgg cgagatcacc ctcgacgaga tggcctcggc 240

gctcgacgcg ctccggcctcg ggcgcgaccg ctccggcctg gaggccgcg ttggcgggta 300
catcccgcc ggcgcgcg ggctccgctt cgacgacttc gaatccctcc accgcgcgct 360
cggggacgcg ctgttcggcc ccatgccggt ggctgtgacc gaggacgacg acgacgaggg 420
ggacatgaag gaggcgttc 439

<210> 20546
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E1

<400> 20546

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tataaagttg tgaaggtttc taaggatgat attaccatgc aaaatcctgc caccggggat 120
atttcagtcc cttatgggat ggctgtctgg tcgactggta ttggaactcg tccattcggt 180
gtggaattta tgaaacaaat tggccaggcc aatcgccgtg tcttggtac tgatgaatgg 240
ctaaggggtcc gtgaatgtga tgggtgtctat gcaatagggtg actgtgtctac aataaaccag 300
aggaaagtaa tggaagacat ttcagaaata ttcagagtcg cagataaaga taagtctgga 360
accttgactg tgaaagaaat tcaagatatc cttgatgata tctacgtgag gtacccgcaa 420
gtacagc 427

<210> 20547
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E10

<400> 20547

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catgtccgac gtgcagggtcg ccgaggcgcg ggccttctac ggcttccaga tcgccatcga 120
gaacatccac tcggagatgt actcgtgct gctcgagacc tacatccgcg acgacgtcga 180
gaaggaccgc ctcttcgcg ccatcgatac ggtgcccgcg gtccggcgca aggcggactg 240
ggccatgcgc tggatcgacg gcggggagcg cttcgccgag cgccctggtt ccttcgcctg 300

cgtcgagggc atctttcttct cgggctcctt ctgcgccatc ttttg

345

<210> 20548

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E11

<400> 20548

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gcggccaggg gcgagaggaa ggcgtgcgcc acgtcgctgg aatccatggt ggactttgcc 120

accgccagcc tcgggaccag ccacgtgagg gccgcgtcga cggtcgtggg gagggagggc 180

tcgccgaggc aggagtacac cgtgacaggc gtgaagcggg cgggcggcgg gcgcctggtg 240

gcctgccacg cggagccgta cgcgtacgcc gtgttcgctg gccacttgac gcagcagacg 300

cgggcgtact cgggtgctgat gcttggcaag ga 332

<210> 20549

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E12

<400> 20549

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cggccgactc ccgatcactc ccactctgtg ccagccgttc aaggtgctgc acggcggcgt 120

gtcggcgctg gtggcggagg cgctggcgag catgggcgcg cacatggcgt cgggggtaccg 180

ccgcgtcgcc ggcgtgcagc tcagcatcaa ccacttccgc agcggcgccc tcggcgacac 240

cgtcctcgcg caagccgtcc ccgtccacgt cggacgctcc acacaggttt gggaggtgaa 300

gctctggaag atggatccgt ccacgggagc 330

<210> 20550

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E2

<400> 20550

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gctgtgctga acagcaggaa gacgccgcag gcggtggtgg ccgtgctggt ggcgggcgcg 120

ctgctggctt cgtccgcttc ggcgggcgatc acctgcgggc aggtggggtc gtcgctggcg 180

ccgtgcatcc cgtacgcgac ggggagggcc agcgcgctcc ccgcgtcgtg ctgcagcggc 240

gtcaagagcc tgaacagcgc ggcgcggaacc agcgcggaacc ggcaggcggc gtgccgctgc 300

ctcaagagcc tcgccaacag cgtcaagagc gtcaacatgg gcacc 345

<210> 20551

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E3

<400> 20551

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ggatgacgct tcgccggacg cagaaacttt accttgttcc tagaattccc aaatgagtgt 120

cgtcgtcgtc gtacaaatgg catgcatctt attgtaagtt ttggagtttg ttgttgacaca 180

cgcaacgatg gaccgcctgt gatatcttta ataaatgtaa ccgcagataa taatgaaata 240

aaaagaacgc atggctattg tattatt 267

<210> 20552

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E4

<400> 20552

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ctcactgtcc gaatcatcga tgagtcaccc ctccatctca ggcgcaacga tagctacaaa 180

gatatggttg tggagaaaaa cttgagaggg cttcttagat cagaagttga caggctctgtg 240

tcacgcgaca gcataattat tgtcgactcg ttgaataata ttaaggggta ccgctatgag 300

ttgtggtgtc ttgcgcgtgc atctggtgta agatattgtg tgaagtggac cattgtaagg 360
aatggaacag caaccgccag gagaaaggag aaccagcata tgataactaat atatttgaag 420
atcttgtaag tagatttgag aa 442

<210> 20553
<211> 242
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-051-Q1-K1-E6
<400> 20553

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ctcctcccc ttccggtttc nngggttcgt ggttcgtgag gggttctccg ggggtgtcgg 120
tttcgtaggg gtgagccgga tcnngagatg gcngtngcgt cggatgggtt gagtacctcg 180
ctgcntttcg tcggtcggcc ctctgcctgg ggcccacgtg acccgaccac tttcccttcc 240
ac 242

<210> 20554
<211> 321
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-E7
<400> 20554

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ggaccaattc taaggatggg ccgcaccaac accacagcac gagtattgag ctctgtcagt 120
ggcggtcccc ctctcaattg ctacagaatg cctactactg tcagacggca tgccctcgcc 180
tctcacagat catgaccctt cgaagcttag cctacagtac tactccaaga cttgccccat 240
cgtgcaacac cacgtccata ctgatataga ctacgtgaa cgctcctaca cgctctacac 300
catactcatt ctctactcc a 321

<210> 20555
<211> 342
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E8

<400> 20555

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ccgtgccatc tcgcgctgct cctgcccctg ctactgctgg ccttgccggc ggccacgcgc 120

ctggcgctccg acgcctgcgc ggctcgataag ttcccggcgg agcgtgcgta cgcgtcgtgc 180

gaggacctgc cgaagctgga cacgtcgctg cactggacgt acgacgcgtt caagagctcc 240

ctgtcggtgg cttacgtggc agatcccgt agatgccgtc ggatgggtgg cgtgaggcct 300

gaacccatct gccgaatgca tggccggcac tcacgtctg gt 342

<210> 20556

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E9

<400> 20556

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gcctcgctcc aagccgcggc caccctgatg cagccggcca agatcggcgg ccgggcgccc 120

tttgccctgc tgccgtccc cccgtcgctg caactcgctt gcagggcggtt cggcgctcgac 180

gccggcgccg ccaggatcac gtgctccctg caggacgtcg ccagcaggtg cgtcgacgcc 240

gcgaagctcg ccggcttcgc gctcgccacc tcggcgctcc tcgtctcggg cgcgagcgcg 300

gaaggcacgc ccaagaggct gacctacgac gagatccaga gcaaaacgta catggaagtg 360

aaaggcacg 369

<210> 20557

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-051-Q1-K1-F1

<400> 20557

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atcatggttt ccttgatgaa ctactgaata atatctgcac aattaacacg gacttagata 360
 ttgaagcctc tgctggatac gatgatgacc tgatt 395

<210> 20560
 <211> 96
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F11

<400> 20560

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 cgaccagacc cagtttttagt caatgttttt cttttc 96

<210> 20561
 <211> 330
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-C10

<400> 20561

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 ccggcgccca ccgataccgc cgcgcgcgcc gacctcgtgc tcgcgcctcc ggtcgggaagg 180
 aggggggtgtc aaacccatgg agcagcctgc cgctcccgat cggagcgtatt ttcccgcggg 240
 ggagtgcgaa tggcgggagg agctgcggca gcagcagtct caggtggacg cgctgcggga 300
 gcggctcgtg gaggcgaagg tcgggttgcg 330

<210> 20562
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-C11

<400> 20562

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gcaacccacc actgagaggc acgcagagga gcaggaagcc ggagaccaag atgtcgtcgg 120
 tgttcagcgg cgatgagacg gcccccttct tcggtttcct cggcgccgcc gccgccctcg 180
 tcttctcatg catgggcgca gcgtacggga ccgcgaagag cggcgtcggc gtggcgtcga 240
 tgggtgtgat gcggccggag ctcgatcatga agtccatcgt gcccgtaggc atggctgggtg 300
 tgctcgggtat ctacgggctc atta 324

<210> 20563
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-C12
 <400> 20563

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 gcggcgagtg caccagctgg tcgggcgtgt ggacctgcga cgacctctc accaagtgcg 240
 ccgncacctg caagaactgc gtccccgtgt ccacggacaa aggcaccacc aagtacagat 300
 gc 302

<210> 20564
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-C2
 <400> 20564

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 atccaggccc agttcatgtt ccagcagcag cagcagcaga ggggcctgca cgcggcggtc 180
 ctgggccccg gggcgagcc gatgaagcag tccgggtcgc cgcggccgct ggcggccggc 240
 ccggcgagtg cgaagctgta ccggggcgtg cggcagcgcc actggggcaa gtgggtggcg 300

gagatccgtc tcccgaagaa ccgcacgcgg ctgtggctcg gcaccttcga caccgncgag 360
gacgcggcgc tcgcctacga caaggc 386

<210> 20565
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-C3

<400> 20565

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cttgacattg atgctagcaa tgggaactgt cttgaagctc atgcgtttct tcaacttctg 240
gcaacctttg gtatctctgc tgaattcaat gaagatgact tgtgcaaatt gcttccatat 300
gtcagtcgtc gtcgtcagac acctgaactc tgctgattgc ttgggttgtc gcagaataag 360
ccaggtgtca ttgaagttct ggtggaaagt tgaagaccta ttgatgcaat taatttggct 420
tatgtgtatg aacttact 438

<210> 20566
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-C4

<400> 20566

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agaagctatt caacctgaaa ggcattgctc ttggcaacct tgtgctggag ttctccaccg 120
acttcaactc gcggggccgag ttcttctggt cgcacggcct gatatcggac tccacctaca 180
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tgagcacggc ctgcgacagg gtgatgagcc aggtggcgag ggagacgagc cggttcgctc 300
acaagtacga cgtcacctg gacgtctgca tctcgtcggg gtcctatgag tcccagggtcc 360
tcgtccctca gcaagggagc agggagctgg acgtgtgcgt ggaggacgag acgatg 416

<210> 20567
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-C6

<400> 20567

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accgcggggcg ccatggccgc ctcctcccgc cgcgcgtctc aattgctggg gtccgcggcc 120
tccgcctcc tcctcggggc gggcttcgcc gcggcagccg ccgcggcgcc ctgcgccggc 180
gtcttcgctc acaagagcac ccgtgtgatc tgccagggca tcacggggaa gaacggcacc 240
ttccacaccg agcaggccat cgagtacggc accaacaatg ttggtggagt gactcccaag 300
aaaggtggaa ctgaacattt aaggctccca gtgtttaact ctgtagcaga agctaaggct 360
gaaacaaaag ccaatgcac tcgttatatat gttccaccac catttgctgc cgccgctata 420
atggaagcaa tggaggctga gtcgacctt gtg 453

<210> 20568
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-C7

<400> 20568

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cacagaatga acctaacacg tacactccac ctaattccat atcataatag tagtctggtc 180
gagttataat agattttcgc tgctctgcct agttccaaat ttctgacatc ttacatgtcc 240
tatcttgggc caacaaatat atttaciaat gaaaaaatat tgcacaagtc taccgtccct 300
caacctgaac aagatttgag gacacatggc agcagtcaat gcctctggct ctgcatctga 360
cagagcctgg tgttgagagc ttcaatgtat gtgcgaagtc gatgccgac ggatcttgtc 420
agagtcaaa 429

<210> 20569

<211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-C8

 <400> 20569

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 gtagattctg ggtatggttt gctgaggaga taccgttacc aactgtttgt aggattggtc 300
 ctctctatag cgtactctat tcttctgtac ggcatatacg ttccagactg ggagtaccag 360
 atagcaggcc ctggttccag ttccacagag aagtcgttct ctgtgaaatg cggagtgaga 420
 ggagacacc 429

<210> 20570
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-D1

 <400> 20570

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 gaaagtaaag gcacgtgact acatgctata catatcattg ctcgatgtgc tcaaccggaa 240
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 tctgttagcg gagctgtcga agttcaggcc cctcccatgc ccaaacaacg tttatacaca 360
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<210> 20571
 <211> 361
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-D10

<400> 20571

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atgccgagct tctaccacga ggcgacgccg tccccgaagg ccgagttcaa gaagctgccc 180

acgaccgggc ccaagtcgcc caagctgggc aggaggaaga cggcctcgac ctccatggag 240

acgtccaact cgtcgtcgga gagcgagggc acgaggccgt gctgccgcgc cagccgcgac 300

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c 361

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<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-D11

<400> 20572

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aagaggggct acggaaaact gaacaagcag aggatccctc tgtctaacaa ccaagtcatc 120

gaggagggct tgggcaagca caacatcatc tgtattgagg atcttgttca cgagatcatg 180

actgttggcc cacacttcaa ggaggcgaac aacttccttt ggccttttaa gctgaaagcc 240

ccgctgggag gtctgaagaa gaagaggaac cactatgtgg aaggtgggta tgccggtaac 300

cgtgagaatt acatcaacga gctcaataaa aggatgaatt aggttcacga ccaaactcaa 360

tgtggtctaa aaaaactttc tgggctctcc aattttacaa taataggaaa tggatgaata 420

tgccatcaag tttggtggtt 440

<210> 20573

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-D2

<400> 20573

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cgcattcaat ccctttcggg tcgaatttgt ggcgaacctc tggattggct ccgtccttgc 120

caaaggagaa gggctggctg gatcagggat cgagcaagga accagccatg agcggcagca 180

gaagcgtgag tttcctcgag atccaccctg cggagctcgc attccacttt gagataatga 240

ggcagatctc gtgtccatg caactgacca atacgactga ccattatgta gcattcaagg 300

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gctcaac 367

<210> 20574

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-D3

<400> 20574

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tagcaacgac gggaactctg acgagcttgc cctggaagtt ttctgcccgg tgtttggcgc 240

atcacagcaa ccaattagca agcagcagga ctccatctcc tccgtcacca agatcggact 300

atggggcgga caggggaagg cggcacagga catcacggca gagcagccac cacggcgtct 360

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<210> 20575

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-B9

<400> 20575

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tttgcgcgc tgcactaccc tgcggtgccca gtatatatta cgggagccct ggcgagcgag 120
agctatggat aggcattggct gctccgaagc tcgcgacgct ggcgctggcc gtgctcctgg 180
cggcgaccgt ggtggctccc ccggccgctg tgctcgcggc gatgtcgtgt tccaccgtgt 240
acagtacgct gatgccgtgc ctgccgttcg tccaaatggg ctggggccatg ccgtccc 297

<210> 20576

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A2

<400> 20576

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taccgatggg gctgaaaata ccgcgcatgt ttgatccatg tcgtggatac agcatcattg 120
gctttgggtga tacccttctt cctggctctt tagctgcttt ctgagctaaa atacgatttt 180
tctgcaaaga atggcttacg gactgcttac agccagtggg caaagggtggc ctatggctct 240
ggactactaa tcacatatgt agccctgaac ctaatggatg ggcatggaca acgtgccctt 300
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<210> 20577

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-051-Q1-K1-A3

<400> 20577

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tcctcgccga tcgatacgat ggccgtcttc tccgacctcc acaccgccga cggcctcaag 120
tcctcgagg ctcacctcgc cggcaaaacc tatgtgtctg gtgactccat tactaaggat 180
gacattaagg tcttcgccgc ggtgccgtcg aagcctggcg ctgagtttcc taatgccgcc 240
cgctggtagc agaccgtctc tcggtctgta gcctcaagat tccttggtta ggctgttggg 300
gtaaatctgc ctgcgggatc agctcctcgc gcagctgctc ctgcggatga agctgangat 360
gatgatgacc ttgatctttt tggatgatga actgangagg acaagaaggc agctgatgag 420

cgtag

424

<210> 20578
<211> 93
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A4

<400> 20578

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atactacggg tgtcagcgtg ctcgggggaag gct 93

<210> 20579
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A5

<400> 20579

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tgctgctgct gctgaggagc ccgcgccggc tgagccggcc gctgaggagc ccgagaaggc 120
cgagccggcc gctgagggtg ccgagaaggc cagcgagtga ggccgtgcgc cgtacgcgca 180
ctgcggcgcc ggacagcggg tcgggagatc gatgtctcag cgtgcgcgcg tggcgtgccca 240
gtcgcgtcgc gcgcgctggc gcctactgtt cagtacaacg cgaacgcgac ggtttctctc 300
catctctccg tgtgtgacag tgtgtgtgtc gtagctatag cagtgcccg tgcggactgc 360
gagtgacatg ggctaaataa agtgtgcgtc gtctggtctg gtggtggtag tggggcgccg 420
tgcccatgt gtgccgtgc 440

<210> 20580
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-051-Q1-K1-A6

<400> 20580

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 ctcaaccatc gcaaccttgt cagcttggtc gggttctgcg cgcaggggga cgagaggctg 180
 ctggtctacg agtacatgcc gttcggaagc ctggagagcc atctgtttga cgtgcctctc 240
 ggcaagaaac cactcgactg gaacacgcgc gtgaggatag ccggtgggagt cgcggaaggg 300
 gtttcctacc tgcacaacgt agccgacccg cctgtgatct accgcgacat gaaggccgnc 360
 aacattctgc tgggcgagga cttcagcccg aggctctccg acttcgggct cgcgaaggctc 420
 gggccggttg gagacaggac tc 442

<210> 20581
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-A8

 <400> 20581

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 ctgggctgca ggtcagttaa tgcgcccgtg acaggcgggc tcggggaggc caagggcggt 180
 gccgggttaa tcccgcgcgc tctcgaggcg gcgcccgcgg aggaccaggc gggaggggga 240
 gacggtgagg cgcggccatg gggggcgcca aggcggagga caaacggcc gncgctgcag 300
 aagattggtg ctaccaatth ggaaacaagg atgcatttga cttgaagccc ccgaaaaaat 360
 caccgatcgc gttgagaacg gttgtctttg ctatgactat gttatgcggg atatctatth 420
 gctcaatgtg catgaagcaa cta 443

<210> 20582
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-A9

 <400> 20582

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acagtgatct tgaggtgaat cctgtgagaa ctaaagaact tacaaatata cgagcccctg 180
gaaaggatga aaatgtccgt ttgtctccac cccgattggt atgatatttt ctgcttttaa 240
tgagatcatg agagatgggtg tttcttttct gtaaaagaaa cacaatacta caattcctaa 300
tcaattgggtt aattgcccac tgtaacttgg atcagcaatg caaattctag aacccattat 360
tggcataatga tattatgttc acacattggg 390

<210> 20583
<211> 349
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 20583

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gagaagacga ccgcaggtaa gaagcccaag tccgagaagc gcctgcccgc ctcgaagtcc 180
tccggcaagg agggcgggcga gaagaagggg aagaagaagg ccaagaagag cgtggagacc 240
tacaaaatct acatcttcaa ggtcctgaag caggtgcacc ccgacatcgg catctnctcc 300
aaggccatgt ccatcatgaa ctcttctatc aacgacatct tcgagaagc 349

<210> 20584
<211> 346
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-B12
<400> 20584

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atatctgaag gagcgtggcg ttgaaaggaa ggacttcaac tcatatggta gccgaagagg 120
aaatgatgag atcatggcta ggggaacctt tgccaacatt cgtcttgtga ataagttctt 180
gaaggggtgag gttggacceca agacaatcca tgttccatct ggggagaagc ttgcagtttt 240

tgatgctgct atgaaataca agaatgaagg gcatgacact attatcctgg ctggtgccga 300
gtacgggagt ggaagctctc gggattgggc ttgaaaaggc ccaatg 346

<210> 20585
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-B2

<400> 20585

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gaagagcagg atctttctata tcctatgggc cccatcctcc gccaaaggta agagcaagat 120
gctttatgca agctcaaacc aaaaattcaa gagtgggctc aatggcattc aggtggaact 180
gcaggctact gatgcaagtg aaatcagcct tgatgagatc aaggatcggg ctcgctaggc 240
atcatgatca tgcacatggg actcggccta ctactgtgga tttgtatgcc attatagact 300
tggtgctgtg aaagactgct tgatgatttg cggggtttgt gctgtgtaaa aaaaagtccc 360
atggcttcca gaagaccatg aaggttcgga tctatcatgt aattccttgg tatctgccaa 420
ttatgtatgg actatggaca tgtg 444

<210> 20586
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-B3

<400> 20586

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cgcagcgcaa agtcggcgggg aactcgcctc tttggcgggc gcggcataaa ggaggtgcga 120
acgatttttt ttataggagg tgcgattgat atctggaaga ctgaaacgaa gcccagagcat 180
gactgtccga ggaatcgaga aaaactaata cgtaagattt taatggccca acattagagt 240
ctcccgtgat atcacctaaa ttccatcttt aaattcgttt tttatggttt tctctaaaaa 300
attttttatt tatatctcat ttctcttt 328

<210> 20587

<211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-B4

<400> 20587

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gccgccgttg cgccctcgcg ctcacacctc cgccagccca ggtccatcga gcgagaaaac 120
ccatggcccc ctgcgcgata ctggtccggc cgccggcgct ggcgaattca ccccttcggc 180
ctccccgatg cgtggcccgcg gtagcagcgg cgccggcggt tcggacggct ccggcgggcc 240
cattctctag gtcctgtacc aagtgtaggt tcgccgcatc ggatgtgaga gaagactact 300
cttctactcc gatagatatt gtcgctgatg ttaagacgga gaagattgtg gtgttaggag 360
gaagtggatt cgttggttct gcaatttgca gagctgctgt atctaaaggc atngaggttg 420
tgagcttcag caggtcagga agacca                                     446
  
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<210> 20588
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-B5

<400> 20588

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acgaggagca gcccgccggc gagtacgggt actccgagac cgaggtggtc accgccaccg 180
gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac aagcagcacc 240
tcggcgaggc cggcgccatc gccgccggcg ccttcgcact ctacgagaag cacgaggcga 300
agaaggaccc cgagcacgcg cacaggcaca agatcacgga ggaggtcgct gccgcggcgg 360
ccgtcggcgc cggcgggtac gtattccacg agcaccacga gaagaagaag gaccacaagg 420
acgccgagga ggccagcggc                                     440
  
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<210> 20589
 <211> 436

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-B6

 <400> 20589

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 aattgcatag cctgcaatga ccatgttgca cttacgcacc ctgaccttga caaggagact 120
 gaggagtcca ttgcagatgt gcttgggggtc gaggtgttta ggcagactat tgctggaaat 180
 atccttgtgg ggagttactg cgccttctct aacaggggtg gtttggttca tcctcataca 240
 tccgttgaag accttgacga gctctccacg ctctccaag ttctcttctg cgcaagaact 300
 gtgaacagaa gaagcgaggt cattgctgca agcatgacag tgaacgactg gactgccttt 360
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 gaagggcagt ccactg 436

<210> 20590
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-B7

 <400> 20590

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 ggaggtgccg gcggagctgg tggcggcggg cagccggacg ccgtcgccca agacgaaggc 180
 gtcgcagctg gtggggcgct tcctggccgc gtccgagccg gccgtgtccg tgcagctcgg 240
 cgaccacggc cacctcgctt actccacac caaccaggcg ctctccgcc ccaggtcgtt 300
 cgcgccaag gacgaggtgt tctgcctgtt cgaggggggtg ctggacaacc tgnctcgtct 360
 gagccagcag cacgggctgt caagcaaggg cgccaacgag gtgctcctcg tcacgagggc 420
 ctacaagacg ctgcgcg 437

<210> 20591
 <211> 380
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A12

<400> 20591

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cctttcaatg ataaaggccg tattgtagaa gcaaaacctc tcgtttatga gtgtgggcct 180

tcttgcaagt gccctcctac atgtcacaac agagttggcc aacatgggct caagtttcgg 240

ctgcaaactc tcaaaacaaa atcaatgggt tgggggtgtga gaactcttga attcatacca 300

tctggaaagc ttgtgtgtga atatataggt gaagtgttgg aggatgaaga agcacaaaaa 360

aagacgaatg atgagtattt 380

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<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G2

<400> 20592

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accttcgaca tcaactgatgc tacggactac ccgtcgctgc tcgaagatcc gccacagtat 120

gctgggggaga ttagggagca tcaactgggtg ctgatgggat ggacatcgat cgccaacctg 180

gccctgacgg tgcaggcata ctgcatctgc cataatgagc tgatggacat gacagtttagc 240

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acaact 306

<210> 20593

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G3

<400> 20593

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accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180
tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc ggggcgctac tccaagaagc 240
ggttccgcaa ggcgcagtgc ccgatcgttg agcgccttac aaactgcctc atgatgcacg 300
ggcgcaacaa cggcaagaaa gtcattggctg tccgcatcat caagcatacc ctggagatca 360
ttcacctggt caccgatgcc aaccccatcc aagtcgtcgt cgacgcgatc atcaacagtg 420
gaccccgatga ggatgccacc cgtat 445

<210> 20594
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G4

<400> 20594

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atctgaaagc cttgagtcc 79

<210> 20595
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G5

<400> 20595

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cggcgcgacg tctatgtgcg tggcgcaggg gctcgggaag cccttatgcg ccggcagcta 120
cacgacgtcg ctccggggcg tcgcgctcgc gcccgcgtct tcggcggccc ggatggccgt 180
cgtccggggcg tcgtccgcgc atcacgagca gcacccggcc aatgagtggg cggacgcggc 240
ggacgtggca gc 252

<210> 20596
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G6

<400> 20596

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ccctccgcac tcgcaagttc atgaccaacc gcctgctggc ccgcaaaca tttgtgcttg 180
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gtggaggcaa gtccactggc ttcggcctca tctacgataa cctcgagtct gccaaagaagt 360
tcgagcccaa atacgcctc atcaggaatg gtcttgctac taaggttgag aagtcccgca 420
agcaaatgaa agagcggaag aacagggcca agaag 455

<210> 20597

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G7

<400> 20597

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caaaaagcca atgcagaagc agacagtgcc cctgttttgc agccagtcgt gaatgtgatc 300
cagatgtttg taggaattgc tgggtgagct gtggagatgg ttcactaggt gagccacttg 360
caagaagtga tggttatcag tgtggaaata tg 392

<210> 20598

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-H1

<400> 20598

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 tgattgggtg gtgaaactcc aatgcacccg tctcgaacac cacatcatgc ttatcagact 120
 ccaatgcggg accctggagc aacaccaata catgaaggga tgcggactcc catgcgaagt 180
 cgagcctggg ctctatgag ccctccgagg gataattggg aagatggaaa tcctgctact 240
 tggggtagca gtccagctta ccagccagga accccacaag ctcggccata cgaagcccc 300
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<210> 20599

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-H11

<400> 20599

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 gcatgatcca ccgcctcacc aggcagggat acttcctcca cgagttccag agcgccgtgc 120
 gcaagatggg ccgcgtcggc gtgcgaacgg gcgccgcccg cggggagatc cgccggaact 180
 gcagggccgt caactagtag aatgcgccgg tccgtcacgt cacgtcaacg ttgccacctc 240
 tttttttttt tttgcttatt tgtttgtttc catcgatcat cttgtttaca ttgtatttag 300
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<210> 20600

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-H12

<400> 20600

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 gcacgatggg ccccgtaagc atgcgaacag tcgccgtacg cggggagatc cgacggaact 180
 gcttggccag gatctaaaag aatgcgccgt gccaatcgt cacctgaact gggccaacgt 240
 gccaaagaat tatg 254

They are not at all
 different from the
 others, and they are
 not at all different
 from the others.

<400> 20601

<400> 20602

<210> 20603

<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-H6

<400> 20603

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ctggcacttg gatccctgct actagagcgc ctgtctgttg actactgaac gaaatccaag 180
cttgggttca ctgtgtacca ttgcggccaa gttactactt cggcagtaga gccatacaac 240
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gaggccatat acgacatctg acgtcgatcc tttgacattg agcgcccaac ctacacgaac 360
ctcaacaggc ttgtgtccca ggtcatctca tcccttactg cctgectgag gttcgatagt 420
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<210> 20604
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-H7

<400> 20604

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gtgcctaagg ttgatttaca tccatgctgt tgccagtata tggattgctg ctagctacat 180
cgtgcagtct gttgtggatg ccggtgtctc tccgttcttg atcacctata tatgcaattg 240
tctgtatcgt gtctacattc ccatagtcga ggctggccgg tacttttagg agtctattgg 300
tgacttgtgg acaaagctga aattcaagga tgctgaaaga ctgcaggacg cttctgacat 360
ggatagtgg aatcttcttc atagtggcgg gcatgagatc aat 403

<210> 20605
<211> 283
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-H8

<400> 20605

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cattccaagc ctgatagctg gagctactca tcaatgggtga cgctgtactc attcactgcc 180
aacgtactga gtgcagaggg catactgaat gaaatgggtg atgcccgtt taagccaaac 240
atctttggcc tgacctnact catccgatgc tatggcaagg tgg 283

<210> 20606
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-H9

<400> 20606

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cggcggcgct gctggcttcg tccgcttcgg cggcgatcac ctgcgggcag gtggggctcg 180
cgctggcgcc gtgcatcccg tacgcgacgg ggagggccag cgcgctcccc gcgtcgtgct 240
gcagcggcgt caagagcctc aacagcgcgg cgcggaccag cgcggaccgc caggcggcgt 300
gccgctgcct caagagcctc gccaacagcg tcaagagcgt caacatgggc accgtcgcca 360
ccatccccgg caagtgcggc gtctccgtcg gattcccat cagcatgtcc accgactgca 420
acaagatcag ctaagttacg acgac 445

<210> 20607
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A10

<400> 20607

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cgggggcacc ggcattctaa acaaccataa catctcaacc ctcacgtcac atgcattttc 120

cggtcaatac ttgcacaaac taaataactt acaaatatcc aacactatga aaccctcta 180
attctacgtc aacctccaca cacaataca 209

<210> 20608
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A11

<400> 20608

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ctacctacca ccagtacgga gactgcaact gcaagccctt acaaaattac tagtacttat 120
tagtataata actaatcaat gaaggaacag aaaccctgca ctgaaccaat catgtacagt 180
atgtatatgt acagccacac acacacatgc cgcgacgat ccaccacacc cgatgcactg 240
cgccatccgt ctccgtctcc gtctcccttc cggcgggggc agacggtctc attgccgcct 300
ctccatgtaa tccaactata gtttcatatt atat 334

<210> 20609
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G12

<400> 20609

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cagcaagatc cagaaagaca tcgccaagaa ccaccaggtc cgcaagcagt acaccatcca 180
ggtcggcgag aacgagctcg tcctcaagga gctggagctg ctcagcgatg gggccaacgt 240
gtacaagctc atcggaccgg tgctgggtcaa gcaggacctc gcggaggcca aggccaacgt 300
caagaagcgc atcgagtaca tctccgcaga gctgaagcgg atggatcggg cgctcaaaga 360
cttgaggagaa aagcaaaaca gcaagaagga atcgatatcc aagttgcagc agaggatgca 420
ggctgtacaa gct 433

<210> 20610
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-050-Q1-K1-E9

 <400> 20610

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 tgcttgact gctccccag cgatgtcgat gccttcaaag acctgcaggt agcgatcaag 180
 tgcaagtccg gcgccgacga gggctacgag acgaaggcgc gtgccccct ggacgacacg 240
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 gactgcttcg ccagctccg cagctcgccc gacgacacgc cgtgcgtcgg ccaggccccg 360
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 ta 422

<210> 20611
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-050-Q1-K1-F1

 <400> 20611

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 cgggggcccgg ggcctgtcca tctgagtgtt agattacca ccgatgggc gtcgagctcg 120
 acctctacga cttggccgtg ctccggccgg tccagaccgc ggcggcggcc gactgcccgg 180
 acgccgccga cacgggctgc gtcacgccga cggccgcgag ctcccttctg ccgcgccttg 240
 gcctggggcgg cggcctactg gacatcgact ccgccgcgtg cgtgacccccg acggcgtcgc 300
 cgtgcctgct gcggccggcc acggtgtgcc ctccggcgcc gcggaagccg gtggcgccccg 360
 gcagcaagag gggga 375

<210> 20612
 <211> 452
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F10

<400> 20612

agcagcttct gcttgctctg gggggaagga gagagagaga gagcgagaga gagatctagt 60

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ggaggtgccg gcggagctgg tggcgggcggg cagccggacg ccgtcgcca agacgaaggc 180

gtcgagctg gtggggcgct tcctggccgc gtccgagccg gccgtgtccg tgcagctcgg 240

cgaccacggc cacctcgct actccacac caaccaggcg ctctccgcc ccaggtacgt 300

acgtacgttc gtgtactgct ggcaagcaag caggcatctt cttatcctcc atgggcacta 360

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caagccgact gagatcttct actagttctt tc 452

<210> 20613

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F11

<400> 20613

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aaaccatcca ttgtcacaag tcacatgaa acacggtaca gggaaggagg gagggaacaa 120

cgtctcagct ggatctatct ttttttatga gatagtacag agtagacatg ggctagcgga 180

acgcagcacg agaacgaatc cacaggaggg taacaaaaaac cgccgctgct cttttgagag 240

gaggtcggtc catcagaaga gtgacgaggc gatcgcgag accacggcga gcgcgacgcc 300

gccgctgacc ccagcccga acttgacgcc gttgcccgcg gcgctgtcgc tcgcagggtt 360

gccgccggct gacggcgtga tcttgagggc gttgg 395

<210> 20614

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-050-Q1-K1-F12

<400> 20614

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acgatgttgt ctgtcttctg gaacgtcagc cgggccgctg ccgaagcaca acggcgctcag 120

ctggaggggc aattcctgca tgaaggatgg cctctccgac agcaccgtcc gccggagctt 180

ggtcggagggc ttctacgatg ctggggacgc catcaagttc aactacccca tggcctggtc 240

catgaccatg ctcagctgga gtgtgatcga gtacaaggcg aagtatgagg ccatcggtga 300

gctcgaccat atcaaggagc tgatcaagtg gngaacagac tacatcctca naaccttcaa 360

ttcatctgct gacacgatag acaggattgt cgctcaagtg ggtgtaggtg acacctctta 420

aggcagcagt cagcctaatz acc 443

<210> 20615

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F2

<400> 20615

caaggaatcc cccgatggct catcgcggtc tctctctcct ctctctcgcg tcggccgccc 60

cggttgccgc cgccgtcgac gcggaggacc cgctgatccg gcaggtggtt cccgggtggag 120

atgacaacga tctggagctg aacgcggagt cccacttctt gagcttcgtg cagcgggttcg 180

gcaagtccta caaggacgcc gacgagcacg cgtaccggct gtccgttttc aaggccaacc 240

tgcgccgcgc gcgccggcac cagctgctgg acccgtcggc ggagcacggc gtcactaagt 300

tctccgacct cagccgggca gagttccgcc ggacctacct cggcctccgc aagtcccggc 360

gcgctctcct cagagaactc ggggagtcgg cgcacgaggc gcccgtgctc cccaccgatg 420

gtctccccga cgat 434

<210> 20616

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F3

<400> 20616

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 gtcttgctgc accatgaaca tgtccatgca cccgctcccg gtgatgcccc acagggcgcca 180
 cgctcgcatg gggggaagga agatgagcgg gggcgcgctc gcgaagctgc tcagccggct 240
 ggcagcagaa ggtcatgacc tctcgactcc ggtggacctc aaggaccact gggccaagca 300
 tggcacgaac cggtacatca ccatccggta gccagccggc ggccacgttg aaacctgagc 360
 ctggaaaggg ggagagatca cacaaacg 388

<210> 20617
 <211> 495
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F4

<400> 20617

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 ctcggttctt tcacgtacga ggagaagcgg aagctcgagt acatcacagc agcgggagcg 180
 cctggggaag gactccatca agcccttcga cgctgctgc ctctgcctca agccgctcat 240
 cgacccgctc tgctgcccc agggccatac cttctgcaag gagtgcaccc ttgagtgcct 300
 cctcgcccag aagaaggaca tcaagcgtaa gctagcagct cacgaggccc agaagaagca 360
 agagaaggaa gaggaggagg aaaagctaatt tctgcagaag gctaaggagt tggatgcctt 420
 tgatcagcag aatcatgggg ctgttcccca gtaccatgat cgcagtgggtt cccaaggcaa 480
 gaatgggttt catgg 495

<210> 20618
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F5

<400> 20618

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gcggcggtgg ctactgcggc ggtcgcagcg gcggcggtta tggcggcggg cgccgtgacg 120
gcggatatgg cggcggtggc ggctacggcg gtcggcgcgga gggcgggtggc ggcggttacg 180
gaggcggtgg cggctacggc ggtcggcgcg agggcgggtgg tggcggttac ggcgcgcgcg 240
gcagcggtg gagggactga tgtgtggggc catcctggct tcggccgagt tatcttatct 300
atctatagta tcgtgttacc gttcgtttct gtcaccgtgt tagtgtccgg tctacctttg 360
gatacgtgtt ggtaccc 377

<210> 20619
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F6

<400> 20619

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gttcgtcttg tcaacaagga gtccagacat cctggcggag atccacatgt gttgtgtttc 120
gtcgattttg acaaccctgc tcaggctaca attgctctgg aagcattaca aggttataag 180
tttgacgaac acgagcgtga ttcagcccat ttgcgtctgc aattctcacg ctttcccggg 240
ccaaggcag ctggtggggc tcgcggtagg cgtaagacg tgcggacctc gtggttgccg 300
aacctatcgt ttatacgagc gatccaacta cggcgggcta acgcttcgat atgcgctgaa 360
tttcggggcg gtggcttttt agggctcgtc agctcatttc gtgaatgcgt gaaagggaca 420
atgcaataag tgatattctg ccatatgtta ttagatg 457

<210> 20620
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F7

<400> 20620

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gagcccaata cccatgcccg tgggctcagg cacaggggat atgtaccaat ggtacaaact 120
ggggaagtct ctgtgggagt catgttgctg accatgatca tgtccatgct cctcgtctcg 180

cggtattccca agaggcgcaa ggctctcatg cg

212

<210> 20621

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F8

<400> 20621

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tgacgatcct tcagtgtca aagataggcc attgtatgct ggggagattt tggatcataa 120

atgggtgcct attggatgga ataggatcgc cgagctggtc ctgaggggttc agtcagactc 180

cagctgggag aatgagttga tggagatgag tgatagcgag gatgattaca cctgggctga 240

tcttgacgct ccatactggc agcgccctgt gggacctact tgggtggtgc atgtcaccgg 300

aggccatcct tcaatagatg catggttgaa tagcgctcac tggatgcatt ctgccatcag 360

aattgcactg agagatgaga gcaaactgat aagcgaccgg atgaagta 408

<210> 20622

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G1

<400> 20622

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gacgtcgtc cggggcgctc cgctcgcgcc ccgtcggtcg gcggcccggga tggccgtcgt 180

ccggggcgctc tccgcgcac aggagcagca cccggccaaa gagtgggccc cgcggcggt 240

cgttgcagct gcgctggtgc tggccgaggt cgccgaggcc gagcccggga tctcgccggc 300

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<210> 20623

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G11

<400> 20623

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tcgggatgat ctatcgctc accaagcagg gatactatct gcacgagttc catagcgccc 120
tgcgcaagat gggccgcgtc ggcttgcgaa cggacgccat ccgcggctag atccgcctga 180
actgccaggc catgatctag tagaatgcga ctgtccataa cgtaacgtct acgttgccac 240
ctttttgttg ggcaaacatt attggtttgc tgcaataaat catatggatg acattggatt 300
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<210> 20624

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-E7

<400> 20624

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tacaacgcgt gtgcgtgagc gccggagtgc cggagctgac gtgctgttgg cgatgtgccg 120
tgtgggactt acccgcggag aactacttcg tccggctgga cccggacggc atcatgtgcc 180
tggcgggtccg gagcaccgcc cgcaccggca tgtacatcat cggtaactat cagcagcaga 240
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ccgaggcgta gtgtatagac gccggcgagg cttctgaga ctgagaggac gaacaattcg 360
aacttaaacc tcgcttgatt gattggattg ggaggcaaat tgggagtaga aatttttaggt 420
tggaaggac ggtggaacgt acgcaagctc tgctacatag ttt 463

<210> 20625

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D12

<400> 20625

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acttcgacag cgtcgcgccg aggcgcccgg ccaagccgcc gcgcagcgac ccgtcgggtg 180
acaccttcgc ggaacccgcc gccgtcgacg ccggggacca cgacttgccg gagctccgca 240
agctgcgcga cctcgaggcg aagccccaga agctggtgtt ggacggaggg ggaggggacg 300
tggatggcgg ggaggattac gtggagacgc gatactacga tggcctcata ggcacgcaca 360
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tcagtgtgat gactaac 437

<210> 20626
<211> 364
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-050-Q1-K1-D2
<400> 20626

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gccgagaaga cgaccgtcgg gaagaagccc aaggcggaga agcgggtccc cgctggcaag 180
tccgccggca aggagggcgg cgagggcaag cgtggcaaga agaagggcaa gaagagcgtg 240
gagacgtaca agatctacat cttcaaagtg ctgaagcagg tgcacccgga catcggcatc 300
tcctccaagg ccatgtccat catgaactcc ttcacaaagc acatcttcga gaagctggcc 360
ggcg 364

<210> 20627
<211> 135
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-D3
<400> 20627

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ggcaagcaca tgggattctc aagtgttaag caggcatgct gaatgtctgg agctggagga 120

gttgactgca atatc

135

<210> 20628
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D4

<400> 20628

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ccattaaatt gcaaggtcaa ggtgggcaat tttcaaaatt tcaaccttaa ggccaaaaat 180
aacctttttc cccaattttt ggaccaatta ggaagcttga ttaaggtact ttttataatc 240
aagtccaaca agaattgctt gaaggccaaa 270

<210> 20629
<211> 488
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-D6

<400> 20629

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ctagtgacaa gtttgagttc atagttcaga agagaggcgt ccatcgcttc tgcttcacga 180
acaaatcccc atatcacgaa acgatagact tcgatgttca tgttggccat ttttcatatt 240
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atgaggcact ttataatatt cagttcgaac agcactggct agaggcccag actgaccgtc 360
aagcaatatt gaacgagaac atgagcagga gggcagtcca taaggcgctc ttcgagtcag 420
cggcgctgat cgccgncagc gtcacccaag tctacctcct gcgcgggctc ttcgagcgca 480
agctggggg 488

<210> 20630
<211> 177

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D7

<400> 20630

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 ggggagagcg accggaagtg ccgtagctgt cactgctgct caacgactgt accttgaggg 120
 acttccctgc ggagaactac atcctacggc tgtaccgga ctgcatcatg tgccctgt 177

<210> 20631
 <211> 200
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D8

<400> 20631

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 tgccgggcaca tatgacactc aagtgacaag aatgcctgat aaaactatgg accagaatga 120
 gttacattgc actgagaaga catcagacat ctgcttcgat ctatgaaata attgctatat 180
 tacgaatatg ccaacctacg 200

<210> 20632
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D9

<400> 20632

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 atgagcccaac tcccgteccc caccaaggcc atgacaccct ggcagccgca gccggtcacg 180
 gcctcccagg tgccgtcgcc cgtgagcatg acgcagaagc ccccggtcag cggtgccata 240
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 cgcgcgcccg tcatgatggg ggctgcagcg cctgcgaggg ccatggtgat ggcctcatcg 360
 ggcaccggcg gcggcaacat cagcaagcgg atgggcccga gcggcaccgg cgtgttcctg 420

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449

<210> 20633
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-E11

<400> 20633

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ctacttctac tacggcggcc ctggcaagaa ctggaactgc ccgtgactgg tgcttctaata 180
gtgtagtggt aagtgccgtc accactagca aaatgtaacc caagcgttca gggtcgctta 240
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gtgctctcta gactctaata ttttcttctt cttttcattg tattttcttc ttgtgccatg 360
taaagtttct gaagagaagg agcatggctt gaggtgcng tgggtggttg ggctggtcgg 420
tggtgacctc tactgatttt tg 442

<210> 20634
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-E12

<400> 20634

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atcttggatt gccgcaaata gtacaaaact tgaaagctca agcatggact gatgaggatc 180
tgtagatgc tttgaatcaa ctagaggtgg gactcaaaga aaacctcaag aagttgagtt 240
cctttgataa gtacaaacag caagttcttc ttggatcatc tgactggtct ccaatgcaca 300
aagatccaag tttctggcgt gagaacatta acaattttga agagaatgat ttccagattc 360
tacgagttct catgacaatc attgacacat caagtgcac caccgtctct gccgtggcct 420

gctacgacct ctcacagtt

439

<210> 20635
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-E2

<400> 20635

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ggagcccagg atggggcata tcagcaggga gcccatgatg gggcatataa gcagggtgct 180
caagctggag catacaacta tgcttatgat gctggcacgg cttatgcata tgcaggttac 240
tctggctatc cagttgcagg ctacgcgcaa agtgcagtgc ccaactattc ctatgctgca 300
cctncgcagc caacaagcag cgggtgcagct acgaacgccg caggaagcca gtatggggca 360
attggtagtg ctggatatcc tactgggc 388

<210> 20636
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-E3

<400> 20636

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gtggaaaagca gctcttctcg tgctttctca gcagggatgg atattaaggg gggtgccgtg 120
gaaatacaaaa aagacaaaaa aacaccactt gtgcaaaagg tattcacagt agagtactct 180
ttaatttgta agatacatga gtatgcaaaa ccttatatat gcttgatgga tggagtgaca 240
atgggatttg gaattgggct atcagggcat ggccgctacc gcattattac agagagaaca 300
ctcctagcca tgctgaaaaa tggatttggc ctgttcccag atgttggtt tgcttacatt 360
ggtgcaaaag caccaggaag ggggtgcagtt ggaagttacc ttgggattac tggaaaaagg 420
atatcatcac ctgctgatgc tatgttcat 449

<210> 20637
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-050-Q1-K1-E4

 <400> 20637

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 ctagattaca tccagcgcca catcgctact cttaaggaat caatagactt gggatcaaata 120
 gtgcaaggct acttcgcttg gtctctgctg gacaactttg aatggttcgc cggcttcacc 180
 gaacgttatg gcattgtcta cgtcgaccgc aacaataact gcacgcgcta catgaaggag 240
 tctgccaaagt gggtgaaaca gttcaacgcc gcgaagaagc ccagcaagaa gattcttacg 300
 ccagcttaga aaatcggggc ctcatgatgt ggggtgcagcc cataaaaaac tgggtgtgtgg 360
 tttggaaacc gaaatcttct gtttttttcc gccacgagaa ggtctggagg catac 415

<210> 20638
 <211> 472
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-050-Q1-K1-E6

 <400> 20638

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 agggctcata taatgcagtt agagagggct ttaaaggctg agatggcaaa gcaggaggag 180
 aacaaaaagg tcataagtga agagcaccag aggtcaaata aacaaataga aaatttgaac 240
 tacaagcttg caagctgtat gagtgcactt gaatcaaaaa atgtggagct gctaaatctt 300
 cagactgccc ttggacagta ctatgctgag agtgaagcca aggaccgact tggaggtgat 360
 ttagctgttg ctagggaaga actgtctaaa ttgtcagagt cattaaagggt ggcaaatcaa 420
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<210> 20639
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D11

<400> 20639

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cgggtacatc accgcggacg agctggggcg ggtgctgtcg tcgctggggc tgcggcaggg 180
ccgcaccgcg gaggagtgcc ggcgcatgat cggccgctg gaccgcgacg gcgacggcag 240
ggtcgacttc cgcgagttcc gccagatgat gcgcgccggc gggctcgcca cgctcgggtg 300
atgggtgacc gtcgccggcc ggtgctgcct gcctcctgct cctgcacctg ggctggcca 360
tggagcgccg ggcaccttat ttctgcatct gcgtgcttga tttcgtgtgc tagaaagaac 420
ctgtagatag atattgcttg ctcggagcga ggggggagct c 461

<210> 20640

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B9

<400> 20640

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actaccgcc gggcgccgtg gccgtggggg tgggagcgcc gttcgggggg gccagcgtgc 180
acgggcaggc gatcgacgcg atgggaggag gcgacgggca gcgcgagcag agcatggcaa 240
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tcgccgacgt cgagagcagc cgcgggttcc ggcacatgat gcgggagcgg cagcggcgcg 360
agaagctgag ccagagctac gccgacctgc acgcgtggt 400

<210> 20641

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C1

<400> 20641

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gcgtgctcga gacggccgaa gccgggttga tcgtgctgcc cgagcacgac tatcaggtgt 120
tacggcgcag gggcgacgat caatacggat tttgatccac ggggaggaaa ggctgatgtc 180
gatattcgag attgcgagtt ggattgcctt ggggacagtg ccgattacgg cgctgggttac 240
ggctgtgcgg tcgatctaca ccgggaactg gatatggacg cgattcctgg tgctgcccgt 300
catcctgacg gcattgcttc tatgttttga catgacgcgc ccacaacccg tgacaatagt 360
caacctgatc 370

<210> 20642
<211> 455
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-C10
<400> 20642

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cttaactttc gaagaaatca tggatgaggc agacaaaata aagaacacgg gtaacagact 120
gtttaaagaa ggaaagtctg aacttgcaaa ggcgaaatat gataagggtc ttagggaata 180
taaccacgtg catcctcatg atgatgaaga ggggaaaatc tttgctaatt caagaaattc 240
cctacatcta aatgtagctt tttgctacca gaagatgggt gaatacagaa aatccattga 300
aacatgcaat aagggtgctg acacaaatcc tgtgcacgcg aaagctcttt accgccgagg 360
aatgtcctac atgttactca gggaatttga tgatgcgagg aatgattntg agaagatgat 420
ttaccgtgac aagtcacag aaccggacgc tacag 455

<210> 20643
<211> 449
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-C11
<400> 20643

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gtgCGtattg ggcgtggttg gccgcgactt cgCGtggtg gcggccgaca cttccgcCGt 120
gcagagtatt ctCGtccaca agaccgacga ggacaaggTg atggtgctCG actCGcaaaa 180
gctgatgggc gcttcagggg agcctggtga tcgggtgcaa tttacggagt tcatacagaa 240
gaacctncac ctgtaccagt tccggaacac catcccgctc tcaaccgCG cgcCGccaa 300
cttcacacgc ggcgaactCG ccacagccct tcgcaagaat ccatatatgg tcaatattat 360
tcttggtggt tatgataagg atgttggtgc ttccctctac tacatCGact acattgcaac 420
cttgCacaag attgacaagg gtgcttttg 449

<210> 20644
<211> 434
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-C12
<400> 20644

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cgTggtcatg gctggtgtgc tcggtatcta cgggctcatc atCGccgtca tcatcagcac 120
ggggatcaac cccaaggcca agccctacta cctctttgat ggctacgccc acctttcgtc 180
cgggcttgcc tgtggtctcg ctgggcttgc agctggcatg gccatCGgca ttgtCGgtga 240
tgctggagtc agggcaaTg cgcaacagcc aaagcttttc gttggcatga tctcatcct 300
cattttcgca gaagcgttg ctctctatgg tctaattgtt ggaattatcc tttcgtctcg 360
cgctggtcaa tcccgggcgg attaagtgca ccaccattct gtgattaccg naccCGttat 420
tatgctattc tgag 434

<210> 20645
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-050-Q1-K1-C2
<400> 20645

cgCGgagctg gagcgcaagc cggagaaggT gtCGtgCGc accatcacca gccagttcca 60

ggccctcgtc ggcattctggc tgggtggagat cctgtccagc cactcctacg acgaggtgta 120
 cctcggccag cgcgacacca aggagtggac gtccgacgcc aaggcgcaag aggcgttcaa 180
 gcgcttcggc gcgcgggtga ccgagatcga taaacgcgtc gttaccatga acgcggaccc 240
 tgggtctcaag aaccgcaacg gccctgccga gtgccactac acgctgctat accgcaacat 300
 gtgctgcacc tagggcgata cctccggaat caccgccaag ggcatttcaa acagcatctc 360
 cattagagtg ctgtctgatc tgaagacgta 390

<210> 20646

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C3

<400> 20646

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 tcgatgggggt cgtcagtga gaaggcggtg gtggcggact ccactgtact tcctgggtacc 120
 atacggtggc ctacttgctc attggcgctg ctctagctcg aacctacctc gtgcactgag 180
 caccttgcca tgaacaccag tgccaattct gatacattct acggaaaagga tgacagacac 240
 gctggagatg acgtactatg attgaatcgc agccgaggat tcgactatct acggtcgcca 300
 ccgtacttct tatcgagctc aaccaaacc gtcgttattg tgaaacagat gtactacaga 360
 tcttctatta cgaacagtgc tcatgacggc aaacatgtca tgcactcatg ctccagga 418

<210> 20647

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C4

<400> 20647

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 gcgcgtattg tctaccactc gatgacgctt cctcctattc gcctcgcgaa atcctgacgc 120
 tcaacctgac agacaacacc ttctcataaa ctgccatgcc aaatgctgta caaagccaca 180
 agctgaaact attccacctg gaaagaacgc tccatttatt gttgacacat tccgatggat 240

ctatcattat agtgtcacat atttggttat cgagacttat ctctgaaga ctgagtcac 300
 ttgcggacta ttatccccct gacgcatctg aacat 335

<210> 20648
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C5

<400> 20648

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 ggcaattaa agcaaattaa ctctggtact gatacttcg actacaatat aatccaaaaa 120
 tacttacggc aatattactt gccacacaaa gcacacatat agctatgcaa aaa 173

<210> 20649
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C6

<400> 20649

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 tggacaagct tgacactgtc ttttcctgcc cattctgcaa ccacgggagt agtggtgagt 120
 gccgaattga catgaagaat ctgattggcg aagcatcttg tagaatctgt caggaaaact 180
 tcagcacaac tgttaatgca ctactgagc ctattgatat atatagtga tggattgatg 240
 agtgtgagcg tgtcaacact gttgaaggcg acgatgatgc gtgagcttgc cccatgcat 300
 gaaactgtta cctacaatcg taatgtaatg tgctggtatt ctgcaatgcc atagcccata 360
 gtcagccatg gcttggaata acgtagtggc tgaccgatat gccagtaggc accttatcta 420
 gtacttacag aactacaaaa agtttgtact atacatatat ggaca 465

<210> 20650
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C7

<400> 20650

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agtgggtgtac tccagtgtga cttcctgcta ttctcatggt ggcttatctg cacactggcg 120

ctgctctagt ccagacttac ctgaagcact gaccaccttg cgaccaaaca ccagagtgca 180

ttctgataga ctactatgga gacgctgacc ataacggtgc agatgacaga ctctgaatta 240

atcgcagacg taaatgcgct tatctacatg cccacctga ctccatatct agc 293

<210> 20651

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C8

<400> 20651

ggcgcaccgt cgtggaggac aatacatgaa tctgcagagc tcctagtggc aacgaaggca 60

gtcattgtta aagatggcat gtattggcta cttctcgatg aggttcctc ctattcgtct 120

cgagaaatcc tgacgtcaa cctgacagac gagaggttct caaaaattgc catcccagat 180

gctgtaaaaa gccacaagtt ggaactattc gagggggaag gaaagctccg tttattgtcg 240

acacattccg atggatctag caatatagtg tcagatatct gggtagcgga cttggctcgt 300

gaagactggg tccacttgca gactatcatc cccctgacgc atctgggcat aagccccgtt 360

ttccagctca agacgaaggt cttcttcggc aaccagaaga gactcctctg cgtagatctt 420

caggacggtg cggtttcata catcaacatg ctttcgggtg agactttga 469

<210> 20652

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C9

<400> 20652

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tacttaccaa gaacaagaag ttgggtgtgt tgaattctgc atgcagtcac ttttcaggaa 120

ccttaatggt ccattgaatt accagtattt acatgctagg tgtcaatggc tatctaaatg 180

gacataatgt tcaaataatta cttgtgaaag actgatacta caaatgcatg cagatctgca 240
aaggaattca tctctaacaa ggccttacat tggttcgata ttcgggtccac caggcatgga 300
ttctaccatg gaaccaaacg gaagggacac tcacatgcac acagtttcat ctggtgaccc 360
aatgattccc taaccttcag tgacgtctgg tctcagcaaa tttacgaact aaatcagcat 420
gcgaaacg 428

<210> 20653
<211> 285
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-D1

<400> 20653

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cgcgtgggac ctgcagcaga agcagtggga gtccgcgcc gccggtggca aggcggcggc 180
ggagcgggag atggcgcagg cgcaccgcc ccaccgtcc ctcgacgagc tggcggggga 240
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<210> 20654
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-D10

<400> 20654

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acttcgccaa gtaccaggcc tacgagctga tccatgccag atgggccatg ctcggtgccg 120
ctggcgctgt catcccagag gcgtgcaaca agttcggcgc taactgcggc cccgaggccg 180
tctggttcaa gaccggcgcc ctgctcctgg acggcaacac cctcagctat ttcggcaaca 240
gcatcccat caacctggtg gtcgccgtga tcgcggaggt ggtcctcgtc ggccggcggc 300
agtactaccg gatcatcaac ggactggacc tcgaggacaa gctgcacccc ggtggcccct 360

tcgacccccct gggcttggcc agcgacccccg accaggccgn catgctcaag gtgaaggaga 420
tcaagaac 428

<210> 20655
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-B6

<400> 20655

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atggacattt ggaagtccaa ggtggtgccc aagatcaagc tcgtcttcgt caagagcgcc 120
ggcaagaagg ccgccgccgc tgccgagctc gtcaagtcct tcgacgagtc caaggagggg 180
atcgatggcg agttccagga gaagaaggct gatctccagc ccaaggctcg cgagatctac 240
gagtctgccc ctgcaccact caaggctctg atcaaggaga ggagcaagggt gtccgggatac 300
aagaagaact ccgccgcaat caccaagttc ttcgaggagc tggccaagat cgaattccct 360
ggagccaagc aagtgagcga cggcatctcc aaggccggcc cggccctgct gtccggcccc 420
atcttcgcca cgttcgagaa ggtctncacg ctgctccctg tcgtcgc 467

<210> 20656
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A2

<400> 20656

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tggccgtgga ggcggcgggt acggcggttg cggcgccgt gatggcggcg gcggctactg 180
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ggggccccgc cggccaagtt atctgttcg ctaccgtgtt gttacccta gttcagagtg 360
gttatcttcg ttcgtctcgt gtttgttggt gccatctgt gttattgatt gaaagtcgct 420

ctgtgtcagt tgtagtgct

440

<210> 20657

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A3

<400> 20657

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gatctgaagc aggtgaagaa tgattgggag gtggtaccca gaagctacgt gagactattg 120

aagaaagtat atccgttagg agtgaagcac aagagaagca catggagtac caggaagaga 180

tgaagtccca ggaggaaatt cttcatgggc taattgagga tattcacatg gccacagagg 240

atcaagaaaa gcagtttgag aagttgttgc aggacgagcg ctcaaaggcc agacgctttg 300

atgttgattc tggaactatg aaagatcgtc agctaaggga ggaatatgtg cagaagttca 360

ttgattgcca agtcaagggt gtggcaaagt ttgaagttga 400

<210> 20658

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A5

<400> 20658

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tggcaccttc atcctagtct acaccgtctt ctcagccacc gatgccaaga ggaatgccag 180

ggactcccat gttcctatcc ttgccccact gccaatggg ttcgaggtgt tcctgggtcca 240

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<210> 20659

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-050-Q1-K1-A6

<400> 20659

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gagcaaaggt ccggcgagcc agagcaatag ttaacaacca tctccacaaa caggctacca 120
cgtagctacg tatatgccgg aactgaactg agctgagaaa gctcaggcgt gaactgaact 180
agatggtggt tcttgccatc ctccccaagg tggccgtgcg attgctcttc acgttctacc 240
gcgccgccag gaagctcagg cgccacgcct tccagctcta caaccgtagg accgncgcc 300
agccgnccttc gttctccgtc tcccagcagc aggcgggtgc cgnacacctc aagaccgacg 360
ccgncattcc tgacgccgnc ggccggaccg tcgtctgtga cgtgcacg 408

<210> 20660

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A8

<400> 20660

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ctgcaacaac tccgaggteg cgtaagagca gaaccccaac gacgccgaca attgacgcy 180
atggggcgga gcgctgctgg agctatcgca gctgcgtaac ggccccgaca gcttcaagct 240
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tgcaactctg tgcttgggaa atgctcagac ttctcatgga ttcttcactc cagacactgc 360
aattgcaaat gagttctttg cgaaggcaac tgaatgtttc cagaaggctg ctgatgtgga 420
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<210> 20661

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B1

<400> 20661

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gctttggact tgatcaatga gccgaagagg ccttcagaca agcccctgcg tctcccccta 180
caggatgtgt acaagattgg tggatttga actgttcttg ttgggcgtgt tgagactggt 240
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tctgttgaaa tgcacatga ggctctccag gaggcccttt ctggtgacaa tgttggttc 360
aatgttaaga atgttgctgt gaaggatctg aagcgtgggt atgtggcctc caactccaag 420
gatgaccctt ccaagga 437

<210> 20662
<211> 422
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-B10
<400> 20662

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tggaagggtca acaggagact gatcggctgt tgcggcctga gtatgcgtgc ctgagccaaa 120
aagatccatg gcgtgcccga gacgactgta acgtgggagc gtcgtatat ccacaccagg 180
cagcacctgc tagagaggta catgacgttc gggatcaaca tgcaggacta gctgaacgag 240
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aacgacaaca acgagttcag cgacaagtac cagcagtga taatgcagaa gcgaagcgca 360
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gc 422

<210> 20663
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-050-Q1-K1-B11
<400> 20663

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tcgctgaaga agctcaagtg cccggacgctg atctttgttg gagaaaaactc acagttccat 120
gcccgcgctg tccacatgac cacaaagctg gaccggagat actgcgctct agtcgaggtt 180
caggcttggtg gttcacttgt cacagaagag cagcccatg cgatggtgat cccgatggaa 240
tacttcctca tggggtagcg gctctacagg ccatcgcagc aggaaagcag cccccggagc 300
aactgagcc cgttctgcat atcaccgag cttctgtcac cggagagcat gggagtgaag 360
ctgaagccca tcaagacgcg catctcgctt aacgtttagc atgggtggat ctcggatggc 420
catggcttga caaccacagc tcagct 446

<210> 20664

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B12

<400> 20664

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ggccgctcgc tctctctect cccagccgca gctggtcgcg gcggcgccgg tccctggcagc 120
ggcgctgctg ctgctggcgg cggggggcgg gacggcgctc gcggcggtga gctgcggcga 180
ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcg cgtcgccctc 240
cgcggcgtgc tgcagcgggg tgcgctcgct caacagccgc gcgtcgtcgg cggcggaccg 300
gcaggccacc tgcaactgcc tcaagagcat gacggggcgg ctcggcggcg gcgtcagcat 360
ggccaacgcc gccaacatcc cgggcaagtg cggcgctctc gtcggcggtc ccatcagccc 420
caccgtcgac tgcac 435

<210> 20665

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B2

<400> 20665

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acaatatattt ctagaggatg cgctgatatg catcactaag ctggatcgga agaaactatg 120

cttagtcggt gcaggcagga ctgatacagg tgttcatgca tggggtcagg ttttaataaac 180
 atactgcata actgtatact gaagcttaaa ttgatatcta tcatctgggt tgcgtatcct 240
 gcaactgttaa atgtcaatat tatgttttat atgaaatact gggggattac atacaatatt 300
 tgttggtttc aggtggcaca ttttactaca cccttcagtt acagttgcct cagtagtatt 360
 cattctgcaa tgaatggact ccttctcct gagattcgag tcagggaaat tagtgcagca 420
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<210> 20666

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B4

<400> 20666

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 gggcgatcgc tggaagcttc ctgagccggg ttcttaaccg caagggcggc ttggccagga 180
 aggccctgca cgccttggcg taccacaaga acctggaaga cacatgcgcc cccggtgtct 240
 tcccgacaaa atgatactcg aagccccgag agccacaca agctctggag cccacaccaa 300
 aagaccggcg tgttcgcccc cgcggcggtg gacccaatc tgacacctgg tggcgcgccg 360
 cagccggcg cgaatgctcc aaaaggcacg gtgctggacc acaaggtgtg gttccgcccc 420
 ctgaggacg tcgagaagcc gcccccgcc gcgtgagccg cgc 463

<210> 20667

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-050-Q1-K1-B5

<400> 20667

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 tgatcagtg ttcaggggtt atccctgaag atgttgtaa gtcactgctt gcagcctgca 120

gatctggtga atttgacgtg gcaaacaagg aagttagcaa cattatagca gatggatatt 180
 cgggtctcaca gctgatggca cagtttctag atgcgattgt tagcgcggat gatattccag 240
 atgatcaaaa ggcaaggata tgtaaaaagc ttggggaaac tgataagtgc ttggttgatg 300
 gggcagatga gtatctacag ctgctggatg tcgccagcga gactattcgc gctcttttca 360
 acatgnccgc gacgctggtc ttctaagagt tcata 395

<210> 20668
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-050-Q1-K1-A11
 <400> 20668

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 gattgcacaa atcgtatctg caagtatcac gggatgatt attcttgctg ctgcatattc 120
 ccgtgagctg ccacgatacg gtctagaagt tggctgacc aactatgctg cagcctactg 180
 cactgggtctt cttttggctc gtcgtgttct caagatccgt gatttggatc aggagtatga 240
 gggcaatggt gaggccactg gtgaggactt ctctgtcgag ccagcggaag agaggaggcc 300
 tttccgtgcc ctcttagatg tcggccttat taggactact actggaaacc gtgtcttttg 360
 tgcctcaag ggagctttgg atggtggtct agatattcct cacagcgata agaggtttgc 420
 tggcttcaag aaggatgata agc 443

<210> 20669
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-G12
 <400> 20669

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 tgatcagatg ctctcgccgc ttttcgggtg cggcgggcga tcggcgtgga gagcggccca 120
 gcacggcggc ggcggcgacg cggtgacgag gcagatactc aagtgcacga ggtggcagct 180
 cgaggagacc accgacttcg tcacctgcc ctaccactac tactgcgaca gtcctaccc 240

gggcgactac cccgcgcgcg tcggcgccct cgtcgccgcc ttcgcgcgcct actgctttct 300
ctccactctc gcgttcaccg tcctcgacct cgtgcggngc aacggtagca gcgccttctc 360
gtcgtcgtcg gccggcgta ggggcatcaa gaggaagtac ctgctccct cgggcccgtt 420
cctgctccct ctggtgctgc tcgc 444

<210> 20670
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-G2

<400> 20670

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tggtgtgagt cgcaggtagg tacaccctgc taccgagag caaaagcggc cccaatagaa 120
acctggaaat tgagttccag tgggtcaaaca aataactgca tacctacata atttaggcgc 180
cctctgtaag ttgaagatcg atgagtttga atggtttctt gggtt 225

<210> 20671
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-G3

<400> 20671

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ctgcccaggc acacataaga tggcccctgc gacctctct atgccatcga cgagtagaga 120
aaaacagtga gcgccatcag taccaagcca tggttgtgag aagctagcat gctccgcgac 180
gccatctccc acctctgacc cctgtggact ccctcaagcc caagcgcggg acaccttcgc 240
gtgtccatg gtcgcgcgcg ccaggccttc tccatcggtg gagcccggcg tagctccctt 300
ggccgcggtc tgccgtggag ctgcacctgg cttccgcgac gttctttacc ttcggtaacc 360
cgctgacgcc tactgtgtac gcggcgcaa atggactcca tgcgggcggg ggccaaggat 420
ctgcgcgagg acacatgtca tccgaaaagc 450

<210> 20672
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-G4

 <400> 20672

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 ggagcaggcg ggaaggcgaa gaagggcgcg gccgggcgca aggccggcgg gccgacgaag 120
 aagtcggtgt cgcggtcctc caaggccggg ctgcagttcc ccgtcagccg cgtcggggcgg 180
 tacctcaaaa agggccggta cgcgcacgct gtatgcacgg gtgccccctg ctacctcgcc 240
 gtcgctcctgg agtacctcgc ggccgaggtg ctcgagctcg ccggcaacgc ggcaagggac 300
 aacaagaaga cgcgccattat tccgcgccac gtgcttctcg ccattcgcaa cgacgaggag 360
 ct 362

<210> 20673
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-G7

 <400> 20673

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 aatgagcgtg ataccgacga ctatgatgtg tatgatattt tagtttgact cttgagttat 120
 gcatgaattt aacccaagc tatctagaaa agtttttttt ccctttgaaa ttcttctttg 180
 ctctccttcc tactggatca aattactttt tatgacaaca aactgcagct ttctctttcc 240
 ttttcttttc ctgcttcacc gcgacgataa ttgtgaaaat atttttagcta cgtggacatc 300
 aattatccac aacatctttg atatttataa tat 333

<210> 20674
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-G9

<400> 20674

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tggcagcggc ggcgacgacc tcggaggccg ccatcacctg cgggcaggtg agctccgcca 180

tcgcgccttg cctatectac gcccgcgga cggggtcggg cccctccgcg tctgtgtgta 240

gcggcgctcag gaacctcaag agcgcgcgca gcaccgncgc cgacaggcgc gccgactgca 300

actgcctcaa gaacgccgcc agggggcgtca gcggcctcaa cgccggcaac tccgtcagca 360

<210> 20675

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-H1

<400> 20675

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agacaggaca atccggctgt cgacagaaaag gggcgtgaga ccgacgacga tgatgtggag 120

gatatTTTTag tttgactctt gagttaggca tgaatttaac cccaagctag ctagagaagt 180

TTTTTTTTccc tttgaaattc ttctttgctc gccttctctc tggatcaaatacgtttggag 240

gacaagaaaac ggcagctttc tctttcgttt tctttgcttg cttcaccgcg acgataatgg 300

tgaaaatatg taagctacgt ggacatcaat gatccacagc atcgttgata tatataatat 360

agagagaaaa ttctctgcac ggtcaatgca gntctatccg gt 402

<210> 20676

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-H10

<400> 20676

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tgaagtacca caggagttgg tagaaaagat tgggaagggtg tttgagacca tactggaaga 120

gactggcaaaa ttgaggggaag gaaccaatga agatatgtct atcgcaaagg ccattgcaat 180

tgttatggat agaaatccac agttgaggca agaagggatt gctcatgaag ttcttcagtg 240
gtatttgtgc cgtatggagg gttgggttgc cactgacgca gattcaattt cactacaggg 300
ctgggatcag gaggtgctgc ttccaggtgg ccatggcctc atgggttcgtg gatatcgccc 360
agttataaat actcttgcaa aaggcttaaa tatacgcctt aaccataagg ttgtggaaat 420
tgttcgccac cggaac 436

<210> 20677
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-H12

<400> 20677

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tggacgtgca catgagttag atgaaaagat ttggaagggtg ttgacacca tactgtgaga 120
cactgacata ttgagggaaa gcaccaatga aaatatttct attgcaaagg ccatcgcaat 180
tgatatggat ataaatccac aattgaagca agaacggatt gcttatgaaa ctcttcagta 240
cgattcgtgc cgtatggaag gatgggttgc cactgacgca cattcaattt cactacaggg 300
ctgggatcaa gaagtgctgc ttcatatgg ccatggcctt atgggttcgtg gatatcgctg 360
agttataaat actct 375

<210> 20678
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-H3

<400> 20678

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ccgagcgtgg gaaatctccg ccgccatgga gacgctggcc agcgccatgc ggcgcgagaa 120
ccgccggtcc aaggccccgc ccttctctctg tgcttctctc gccctcgcct cgggcagggt 180
ccctctctgc atggccttcc tctgctgect cgcttggtc tacgtcgccg gccgtttgtg 240
gcacgacgcg cagacccggg cgatcctgtc cggcctctc gagaagagct ctaccagcgt 300

ccagaaagtg ctctcgggtg aagacatgct taagaacctt gggt

344

<210> 20679

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-H4

<400> 20679

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aagcatgagt atgggtcaga ggcagatgtc catgaaccag agatatttgt tgatcatgat 120

gtatacctgc cacctgcccc aagccatcat gatgctcatg gccagttttg ctctggaggt 180

attgtattgg cttctcgaga tggaaagatt gtgtttgaga gtacacttga cgcaagacta 240

gaagtgtgtt tccgcaagaa attgccagag atccggaagc ttctttttgg ccagactgca 300

gcctaatacga ctcatctgcc gatggtacgg ctgcttctat gtaatggttg ccggctgcac 360

gcctgcactg cagccataag gaactccgcc tgtttttgtc aaattgattg ttttaaggat 420

tcatcccccta tgtacaaact acctnatggt tcattat 457

<210> 20680

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-H5

<400> 20680

ggagtggcgg ttgccatagt aatagctgct acatgcttga ctgttatagt tctaagggtct 60

gtgtatttta aagtctcccg aatgaagtat ttagatcgaa acggtgctca aacctttgat 120

ccaggaacta aactgctac tttaaagctt caaccccagc ctcagtcagg gtacctttgg 180

aaaggctctg acttttctgc atatcctgtt tctccgtcaa ctactgcctt tgaaagtact 240

cacaaacccg tttgaaattg cccgatctca ttttgagaag ttgttccatt ttccc 295

<210> 20681

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-H8

<400> 20681

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 gtaggccagc cgcgggcagc agccatcagc catgagcgag gtgttcgagg gctacgagcg 120
 gcagtactgc gaggcctnec cctcgctctc ccgcaagtgc accgctgcat ccgccctcga 180
 tggagagagg aagaagcaga agctctccga gatccagtcc ggcgttgagg aagctgaatc 240
 gctgattcgg aagatggacc tggaggcaag gaggctacag cctagcatta aggctggttt 300
 gcttgcaaag ctgnaggagt ataaatctga cctcaacaac gtcaagagtg agtcaagag 360
 gatatctgcg cccaatgccg ggcattngct acccgaggga ggctctggag tctggaatgg 420
 ctgatactct cgcggtgtct actgac 447

<210> 20682
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-H9

<400> 20682

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 agcggaagga ttgtaaatct ggtggctacc ctgttgaggc cattgtaggc tcacagcaga 180
 ttcagtaaca tcaaaggcta ctgaaaagtt ttactgtgca gatctgattc aatatttgtc 240
 agttatcttg ttggggcaaac atttttgctt tgctggaaaa ttgggggaggg aggttggtgg 300
 gggcgccctg cagtttcaag gcaacaacct cagcagtcac caacggtcga ctccatttgt 360
 gttctgattg atccttatgg ggatactctgn tattcaatt 399

<210> 20683
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A1

<400> 20683

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tgagtcggac cctgtcaaca caggggtggc gatgttagag acatggcaca atctcgatcg 120
tgacgtatga gaacccatct acacaggggt gtgcttgccg tccatggaat gtttgtttga 180
cttcaccgat agaattgctg atatgtacca tgatttccca gttcatagaa tcaactatca 240
aagaggacaa acaggggttg tgatgagag 269

<210> 20684

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A10

<400> 20684

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tcttgcaata atgggctctg tgtctctctc ctccaagacg aacatggctg cagcagcaac 120
agtcctggaa gacatgctgc tactactggc ggcagggccc aatacagaca tcccagcggc 180
gagctacgca tacggaacgt ccgtaagtgg cactaatcca aggcaacgct acgggcagcg 240
aggtatacta ttccaacaat gtctacaatg gagtgaacta cttcaacaaa acaaattctct 300
ttggatacat acca 314

<210> 20685

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-G1

<400> 20685

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cgggcggcag caggcagcca tcatgtcgga ggagaagcac caccattct tcaaccacca 120
caagaaggac gaggagcagc ccgccggcga gtacgggtac tccgagaccg aggtggtcac 180
cgccaccggc gagggcgagt acgagaggta caagaaggag gagaaggagc acaagcacia 240

gcagcacctc ggcgaggccg ggcgccatcg cgccggcgcc ttcgcactct acgagaagca 300
 cgaggcgaag aaggaccccc agcacgcgca caggcacaag atcacggaag aggtcgctgc 360
 cgcgggcgcc gtcggcgccg gcggttacgt attccacgag caccacgagg agaag 415

<210> 20686
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-E2

<400> 20686

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 gttccatggc ctccaccttc attggcaact ccacgtccat ccaggagatg ttccggcgag 120
 tgagcgagca actcactgct atgttcagga ggaaggcttt cttgcattgg ttcactgggtg 180
 agggcatgga tgagatggag ttcaccgaag ctgagagcaa catgaacgat ctggtgtccg 240
 agtaccactc ctaccatgat gccactgctg a 271

<210> 20687
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-E3

<400> 20687

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 gctctgaacg tagcagctgc tgagttggtg ggtcgaccga cgacatgagg tcttcggagg 180
 aaactctgct tggttggtac caggcgagcg gtgacgactt ttagatgtcg actatccttc 240
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 tgtcactccg attgtctcgg acgtgtcggc gtcatt 336

<210> 20688
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-E4

<400> 20688

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ggccgggata agcttgcttt cttgatgttt ggtctggatc ggtggagatg gagggccgtcg 120
atggatcgga gtcagggaga ggcttaaatt cttgttgtgt ttttttaaca agggactggc 180
cttgttacaa ctctgctact aggctggagc ctggagggag ggacgatgat ccatcagatg 240
ggctatgtta ctctgtagat catctagatg ttaattaggt ctcttggtga atgcagctca 300
tccaattagc atcttatttc ac 322

<210> 20689

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-E6

<400> 20689

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ggcggcggag gtagaggcaa agggatgacg cgcggaagc agaagatcga cgcgacgcgg 120
cgtaacgcgg agcgaaacca gaaatccaag gggctcagc tcgaggcccc cgccgtcggc 180
ctcaagatcg tctgtccat ctgcaaggta caattggcaa atgaaaaaca gctgaccgat 240
cactatggat caaagcatcc aaaggagaaa cctccgagca catcgagcac cgaataacca 300
tggctggctg tgacgcagaa atatagatcc tgcttggtg gtttgaggat ctttaagtcc 360
gtctgatcca tgctgggac ctcaacgtca gttatatact ctctagtgtg tgcattttct 420
cttgtttcag gtattgtgtt gtcgtgctgc caatgtgtc 459

<210> 20690

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-E7

<400> 20690

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ttcttttcagc taactacact gcacgcaatg gccaccacgg cgaccgagggc ggcgcccggcg 120
caggagcagc aggccaacgg caacggcgag cagaagacgc ggcactccga ggtcggccac 180
aagagcctgc tcaagagcga cgacctctac cagtacatcc tggacacgag cgtgtacccg 240
cgggagccgg agagcatgaa ggagctccgc gaggtcaccg ccaagcaccc atggaacctg 300
atgacgacct ccgccgacga ggggcagttc ctgaacatgc tcatcaagct catcggcgcc 360
aagaagacca tggagatcgg cgtctacacc ggctactccc tcctcgccac ggcgctcgcc 420
cttcgggagg acggcacgat cttggccatg gacatcaacc gcgagaact 469

<210> 20691

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F1

<400> 20691

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agagggttaa aggcggtgga agacaaaact tattaatggt tggaacattc caagaggcca 120
tagggttgta gttaattgta atgagctgaa tcagcctatc ggagaagagg caggagtcct 180
tgcaaaattc cttggcatgg ttgctaagaa tggctccttg tgtagcttaa gcttcaagga 240
ttggagacta cttataggaa agaaagatag gaaccataaa caaatcaata aggaggccat 300
tcttaatcaa gtaaagaaga gatttcttta cccttgccgg acggaaacat ggggtgctgcg 360
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<210> 20692

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F10

<400> 20692

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ggagatagtg acaatttgcg tgatcttata actgctataa cagatttcac atcactagcc 120
acttagcatt tgcactgatt tacacactaa tcctaaac 158

<210> 20693
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F11

<400> 20693

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cctagcctta cgccgacgag gggcttcttc taatcgatct ggtgtctgtt ctgtgggtatt 120
ggtctgggtg cactccaggg ccaggagcag ctagccgtct tcgttcgatc cgttcgcacc 180
ccccaacgcg gttcgatttg caggaaggag cgtgatggcc aagacgagct cgttcaagct 240
ggagcacccc ctcgagaaga ggcaatctga ggctaaccgt atcagagaga agtaccctga 300
cagaattcca gtgattgttg agaaggctga gaggagtgat attcctgaca ttacaagaa 360
aaagtacctc gttctgcag atcttacagt cgggcagttc gtgtatgttg ctaggaagag 420
aatcaagctc 430

<210> 20694
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F12

<400> 20694

atgaagcttc atgcatggaa gctcgagcat atctttcaag atttggcatc tagctaccta 60
cattactcc taggatcaga ctctattaat ggatgtcgta tccgtcctgc gatctgtgtc 120
taaat 125

<210> 20695
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F2

<400> 20695

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cgctcctgct cctcccagcc gcagctgggc gcggcggcgg cggtcctggc agcggcgctg 120
ctgctgctgg cggcgggggc cgggacggcg tcggcggcgg tgagctgcgg cgaggtgacg 180
tcgtcgggtg cggcgtgcct cgggtacgcg atgggcagcg cggcgtcgcc ctccgcggcg 240
tgctgcagcg ggggtgcgctc gctcaacagc cgcgcgtcgt cggcggcgga ccggcaggcc 300
acctgcaact gcctcaagag catgacgggc cggctcggcg gcggcgtcag ca 352

<210> 20696
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F3

<400> 20696

gcttcttgac tgggtgaaag gactgctgaa ggagaaaaag gtggagatgt tgggtggaccc 60
agatctacag aatgcctacg aggagatcga ggtggagaac cttatccagg tggcactcct 120
ctgcacgcag ggctccccgt tggagcgtcc aaagatgtcg gaggtggtga ggatgctgga 180
aggtgacggc ctggcagagc gttgggacga atggcagaaa gtagaggtgg tgaggcagga 240
ggctgagtcg gcaccgttcc gcaatgactg gatcgtcgat tccacgtaca accttcgtgc 300
cgtgagagct gtccgggtcca aggtagtagc cactccatga ctccgaagaa agaattcaac 360
actgaatggc ctagattcag tctaatacgt gcttgtgtat atgaaaggta gcttttggaa 420
ttgttagcga cagtcaatat gaagggatgt tttt 454

<210> 20697
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F4

<400> 20697

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acatccttat catgtgtatg tgttatcata agatcattca ccctgttaaa ctacatcata 120
accttcccc aatattaacc ttaaatacct ttcctattca caaacaata actgtatacc 180
tacataatt 189

<210> 20698
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-F5

<400> 20698

caaggaaaca accaagcaca tacgctttcc catttgtcaa acatgatgca agcaaatcct 60
 gtgagcacta gtagcctatt ggcgtcaaat caaaatcatc catctcttca tggcttagag 120
 tttgatttgc cttatcttga agcaaaatat aacgcatgca cgactactaa tcctagacca 180
 gccatatcca tgcaggaggg cctgaaagca ggggttttct ccaacgctcg gtctacgcag 240
 tctcttccaa gtactagcat tccgacgggg catcctctcc ctcagcaatt agcacatcac 300
 ccttactctc agccgactgt agcacccatc acacatttcc caaatatcgn tggctatccg 360
 ccgtatttgc cacaaaacta tgctgcttac ctatcttcgg gcacctttca gcangcata 419

<210> 20699
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F6

<400> 20699

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 gccgctgccg ctatggctgc tgcttccgtt ccgccaacat cttctctcgg tggctgggac 120
 ttcacctgta acctcgaagt cgattatggg tctgaagaac atgcatacat agtctacaga 180
 acgtatgcat gcgacaagga cttgaagcct gacaaggta acacgctcat gacactctca 240
 tgcttcaagc tgctagtata ctgactagcc atgcagtcct tcatccatca agccatcatc 300
 at 302

<210> 20700
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-F7

<400> 20700

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ggatttgcgt accggttcat taaaaatgaa actactcgtg tcacggtaaa atgtgttgca 120
gagggctgca catggcgaat gcatgcatcc gagtcatctc gtaacaagaa atttgtgatc 180
aagaaaatga cagatgagca tacatgtgga ggaggaaatg gagaagggtca gcgtcgagcg 240
acaagacaat ggctgaccac tgttattaag gagaagctgc atgataatcc gatgttgaag 300
ccaaaggacc ttgtcaagga aatatatgaa caatatggag ttacactgac ttattcacag 360
gtctggcgag gtaaagaagt agcacagaac gaactgtatc atgctatcan ggagacttac 420
a 421

<210> 20701

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-F8

<400> 20701

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cagagcgaga gagcgatggc gctgactaac ttcacgtga cgggtggccgt ggttggcgcg 120
gggggtgcttc ttttcaccac cgacatccgc aggtctggcg cctcttccg ccgcaacgcg 180
cgccagctcc ggcagtggct cgaggaggac acggcctccg ccgctccaa gtctgcaaaa 240
gaagcagctc aaaagaaact cgactcgacg gtccccaagg agaagcaaaa ggaagatagc 300
cactgattgg agctgtttat atgaacggta taaccctat ttgaagtcgt tcaagttctg 360
ttttctacag ttgctcgat aaaaacttgt agctctcaag taaggtgcac ggcaggatta 420
tgtntcccg ttaacatcng nctctgtgga acagctagct aa 462

<210> 20702

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-F9

<400> 20702

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cgagagagtc agaaatggca tcacctcata gctgctttcg cggctggcag agcacgagcc 120
acgtcgcagt tgcgctggtg tccgtgctga tcctgagctc ggcacgtctc tccgcgggcg 180
gcaggagcct gctggagctg tacaagccgc cggccagcgc gtcctgacg taccacaacg 240
gcgccgttct gcagggccgc atcccgggtg ccatcatctg gtacggccgc ttcacgccgg 300
cgcagaaggc cgtggtcacc gacttctctc ggtccctcac caccgccgcc gnctcgccgn 360
cggcaccgtc cccgtccgtg tcgcagtggg ggagca 396

<210> 20703

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-C4

<400> 20703

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tgaatggcac aagccatcga tagattgatt catccactga tgacgatata tgcttctggg 120
cttagtttac atcgaccgtt ttcagcaggc agccattgac attga 165

<210> 20704

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-C5

<400> 20704

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agagaagctg aggcttagcg ccgcacccgc cgcgcacatca gccatcagcc atggcgctgg 120
ccgctcgcct cgtctcacgc tcccgtcagc tacattcggt tcaagcagct tttgcgaatg 180
gaggtgtcac tcaagtctgc tcctttgccca aggatgcagc tccagctgac cgtcctcctg 240
ttagtgggga tgatctcctg aagggcata tctttgaggt aaagaagaag tttgagacag 300

gatagttcta gatgcgagcg gccccttttt ttttttgtgt acatttatat atcttgggag 60
 gcggtgtgta aagattaagg ggggtggaat aatcggttga taggcagctg gaggaaattt 120
 tgtaggcagc tggtagtggc aaatatgctt tgtagcacgg catcatatga tcaaacgggt 180
 cactaagaag agtgcagtgc catttatatc attgtatgt 219

<210> 20708
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D1

<400> 20708

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 gccatcgctt acaagcccga cgtcgacgtg gagaagatca agttccacca cttctccttc 120
 gaggagacca ccgccacgct ccacctcaag ctcgagaaca agaacgactt cgacctcggc 180
 ctcaacctgc tcgagtacga gatgtggctc ggcgacgaca gcatcgctc cgccgagctc 240
 acacagaccg ccaagatcga gaagcagggg atcaccagga tgcaggtgcc cttcagcttc 300
 aggcccaagg acttcggatc cgctgtctgg gacatgatca ggggaagggg cacgggatac 360
 accatcaagg gaaagatcga tgtcgacact cccttcggca acatgaagct 410

<210> 20709
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D10

<400> 20709

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 ggagatgctc tgtacgtat ggagctggct ctggccctgg aaaagctggg caatgaaaag 120
 ctgcacaacc tgcattggtg ggcaacaagg tgcaatgatc ctcagctgac agacttcac 180
 gagagtgagt tcctcgagga gcaggtggaa gccataaaca agatctccaa gtatgtcgcc 240
 cagctgagga gagtgggcaa ggggcacggg gtgtggcact tcgatcagat gctgcttgag 300
 gaagaggcct aaaaagaaga acggacagat gaatgaagga aacaagtgtg taatgttgat 360

caggcggagg aataatgggt caactgacaa ctctgggtcg gtggatttgt agttggtttg 420
 ggtttttttag ttgt 434

<210> 20710
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D11

<400> 20710

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 ggagatgcgc tgtacgctat tttgctcact ctggccctgg aaaagctgct caatgaaaag 120
 ctgcacaacc tacatgggtgt ggcaacaagg tgcaatgac ctcagctgac agacttcac 180
 gagagtgagt tcctcgaaga gcaggcggaa gccataaaca agatctccaa gtatgtcgcc 240
 cagctgaaga gagtgagcaa ggcgacggg gagtggcact tcgatcagat gctgcttgac 300
 caagatgcct aaaaagaaga acggacagat gaatgaagga aacaagt 347

<210> 20711
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-D12

<400> 20711

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 atcatcaagg aagctgagag cgacttggag tctgaggaag tcctggatca atcccttgcc 120
 attgttgcca agaatgaagg tttggacaag gacacaacta caaaactcac aatttacact 180
 gtaggtggtg ttttgaagaa tctgacagag ggccccttga gtgttatgga taagcacata 240
 tatgcaggac aactgtcaa accatttccc agcctgattg aagctggaaa gactggttgt 300
 ttcacatct caaatatatt tgctaaaggt gttgaggctg gagtgggtga caccggcaac 360
 aacaaaaata aagttccatg tgcattggcta ctttgcttca tcgaanacaa ggctaacgtg 420
 aggatttatg gagagtg 437

<210> 20712
 <211> 254
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-D2

 <400> 20712

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 gtaactgtaa cattctaact tacacttgat cgaataatac ttgatacca acataaactc 120
 aatacattat acaaccttta ctaccaaata tcctttgta tacttttca tattatcata 180
 ctaatcacta tcaatattac accaccattc ttataaaatt acgcatgctt tatacttaat 240
 ccaactcttc ttct 254

<210> 20713
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-D3

 <400> 20713

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 ggatcccgcg cggcccaata aaaacccgac tcgctagcta cgctacacac tcgcagatgg 120
 ccggcctcag gatgaagttc gtcgccgtcg ccgccatggc cgccgcgctc gtggcggtccg 180
 ccgcagccgc cgaggcccc gccccggccc ccgcctccga cgcc 224

<210> 20714
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-D4

 <400> 20714

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 ctgtagaaac tgtgttcgat aaagatagta ctaacctgca tgaagatgac aagagaaaca 120
 ctgagagttc agaagcggaa ggacaagtca acagtggaga tagtaataca taagctaata 180

ataataagaa tgaagatgaa accaccagtc ttgtagaagg acgcatgcat gatactgaat 240
ccaactctgc tgctgagagt aaaagtgaag tcaattcaac tggagatgaa ttgtatcaaa 300
acaatcatgc acaggaggac aacactaggg aggcaagtgt aatgtctcat gatgaattag 360
cgcattggtga cgaatcaacc agtgcattgt gaacttggaa tggatcatat ggagaagggt 420
agaaaagggg gcagttgata ctcaaactga ttatg 455

<210> 20715
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D5

<400> 20715

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ggaggctatg gcgcaatcgt caatatacca aaagatctag caagtcatga agcgaatcgt 120
tacttgatag aagcatgtgc taagtatgat gtgaaatgtc cacctcccca aacgacatca 180
cggttgcttg acaagttagt tggtcatttc ttggaggaga catgtgtgaa tccaacattt 240
atcatcaatc atccagagat aatgagtcca ttggcaaagt ggcatacgtc tcgacctgga 300
ttgactgaga ggtttgagct attcgtaaac aaacatgagg tgtgcaatgc atacacagag 360
ttaaacgata ctgttggtga gagacaacgg tttgaggagc aactaaagga tcgataatct 420
ggtgatgatg aagctat 437

<210> 20716
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D6

<400> 20716

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gtagagactg ttttcgatag agataggact aacctgcatg aatatgacct gagaaacact 120
gagagttcag aatcagaagg acaagtcaac agtggagata gttatacaga agctaataat 180
aataagaatg aatatgaaac caccagtctt tttgaatgac gcatgcatga tactgaatcc 240

aactcttctg ctt

253

<210> 20717
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D7

<400> 20717

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ttgattttct tcaagatacc cacgctaaga gcaatggctc tataccataa gatctaccct 120
gtgatgaata cgcatcacia ctttatataa ccatctctct aaaaatatat ttaatctaca 180
cctccataaa ccacatcac 199

<210> 20718
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D8

<400> 20718

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gcttggtttt ttgaacattt ccttcacccg tatccaaaag attctgaaaa gctaatgtta 120
tcgagacaaa ctgggttgac aagaagtcag atttcaaact ggttcatcaa tgcccgtgtc 180
cggctgtgga agccaatgat cgaagacatg taaaaagaag agattggtga agcggagcta 240
gactccaact cttcctccga caacgggcag cgaaacaagg acaaagcacc atcttccgag 300
gaaatgagga cctgca 316

<210> 20719
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-049-Q1-K1-D9

<400> 20719

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ggtgaaggac atgaaagatc actcaacact gatgttttgt ttggtatact gaagaagggt 120
 gttgcacgta gacgggattt taaactaatc gttacatctg caaccctaaa tgctgacaag 180
 ttctccaagt tcttcggagg tgtgcctgta ttccatattc cgggtcggac tttcccagtt 240
 aacattatgt tcagcaaaac accatgtgag gactatgtgg aagctgcagt gaagcaggcc 300
 atgactatcc acataaccag cggccttggg gatatactaa tcttcatgac tgggcaggaa 360
 gaaattgagg ctacctgcta tgcgcttgct gaacgcatgg aacagntaat atcgtcattc 420
 accaagacta ttcccaagct agaga 445

<210> 20720
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-049-Q1-K1-E1
 <400> 20720

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 agcaagatgt cgtggcaggc gtacgtcgat gaccacctgc tgtgcgacat cgaaggccag 120
 cacctcagcg ccgcccgcct cgctggccac gacggcagcg tctgggcaca gtccgagaac 180
 ttccccgagt taaagcctga ggaggttgct gggatgataa aggactttga tgaacctgga 240
 actcttgac caactggtct ttttgttggg ggtacgaagt acatggtgat ccaagggtgaa 300
 cctggagttg tcatccgagg aaagaagggc actggaggca ttactatcaa gaaaactggc 360
 atgtccttga ttatcgggat ctatgatgag ccaatgactc cagggcaatg caatatggtg 420
 gtg 423

<210> 20721
 <211> 254
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-049-Q1-K1-E10
 <400> 20721

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 gtgtgcgctc acatgcatcc ggacacctaa aggtcacctg cagcgccttc ctcaattgcc 120

ggcgacaaaag ttcgtggcat acgccaacc gttactcttg acggggtacg ttatgtggac 180
 acccagggttt ttaagccggc gacttaccag ttaccatagc ttgacaaat aagccaactc 240
 taggcgacat ccca 254

<210> 20722
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-C3

<400> 20722

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 gacgtaaacc cagacaacaa ggacatgtcg cctgagttcc tccggtgggt ccgcggaagg 180
 aatctgtcga ggcacgaccg gactatgcgc ctcaaagaag gatacatcaa ggagggcagc 240
 accgtgagcg tgatggggtg cgttcagagg aacgagaacg tgctgatgat cgttcctcca 300
 gccgagccca tctccactgg ctgccagtgg ggcaagtgtg tctcccgac cagcctcgag 360
 ggccttgctc tgagatgcga ggacacgtct ggctggacg tgataccggt ctagctagag 420
 aggggtgggtc tggcgaatcc tctggcgctg aaagggagta gaaaaaaaaa gat 473

<210> 20723
 <211> 468
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-A7

<400> 20723

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 tgccgtgcac agatagaatg gtacaaggcg ctgttcgacg cagagatggg gtactacgac 180
 gcgttcaagc agcggcggtc gccaggaag tacaccaagg tgaacttaaa ccgcatcaag 240
 ctggggccagt tctgggaccg agtgctgagc atgctcgacg ccggccagct cccccacgat 300

ttccaccgcc gcgccaagtg ggtcaacgcc tcccgtttct accagctect cgtcgagcct 360
 cttgacattg ccgactacca ccgncacggc caccacctga cgagcgggag ctacatgact 420
 cacggccggg agaggaagta cgagctgttc gacaggtggt ggcaggag 468

<210> 20724
 <211> 381
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-A9

<400> 20724

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 tacacgtacg acgccgagtc cgacaaggac ctgccatggc tgcgctgcaa gatctcgtcg 120
 ctggtgcccc acggcaagga cagcccgcgc aggtcatcgt cggcgaggaa ggcggcggcg 180
 ccggtgttcc cgctcgccct gaccaagggc caggtggtgg aggtgccggc cgtgcctgtg 240
 ccggccaagg acccggggaa ggagcagctg ctggtgatcg agggcatcga gtacgacccc 300
 caggcgaaca ataagttcga cgtcgccatc aacctgcccg cggacaaagc gttgcangta 360
 ggcccacagt acaaggagta c 381

<210> 20725
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B1

<400> 20725

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 gttgtcttgc gggtttggtg gatccaggac aaagcctgga agaagcagtg agacgagaaa 120
 catgggagga aactggtatc gaagttgggc aagtcgttta tcacagttct caaccatggc 180
 ctgtttggcc aaatactatg ccgtgtcaac tgatggtggg cttctttgct tatgctaaat 240
 cattggagat aaacgtggac aagcaagaac ttgaaaatgc ccattggcac aac 293

<210> 20726
 <211> 431

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-049-Q1-K1-B10
 <400> 20726
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 agcttggcat agctcggaaa gttacaatct caagttcctc gacgaccatt atagcagatg 120
 ctgctagcaa agacgatatc caggccagaa tcgcgcagct gaagagagag ctttctcaga 180
 cggactcgac gtatgactct gagaagttgg cagagagaat tgcaaagctt tctggtggag 240
 ttgctgtggt taaggttgga gcatcgaccg aggcagagct agaggaccgc aagctccgca 300
 tagaggacgc gaagaatgcg acttttgcag caatagagga aggtattgtt ccaggaggcg 360
 gtgcagcgta tgttcatcta tcgacattcg tgccggctat caaggagacg ttggatgac 420
 ctgaggagcg c 431

<210> 20727
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-049-Q1-K1-B11
 <400> 20727
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 ggagagtgtt agttgactca ggaggcatct gacgtaatga aacttaactt ctagaccctg 120
 atggtcacca actctatgat caaggctaga tcccatacct caatagatta cgttattagg 180
 ctcaactcaa ctattgcatg tcagagtacc tacacagaat accatcccat gctcatatac 240
 tatgggtaaa ttctgatgga tgataccact tagcaaagc 279

<210> 20728
 <211> 180
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-049-Q1-K1-B12
 <400> 20728
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gaggggggagt gttagcatac tcactaggcg gccttcgaaa ataacctcaa cgtcattacc 120
 ctgatgggca ccaactccga tatcgaggcg aaccacgac cccttactga aactttacaa 180

<210> 20729
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B2

<400> 20729

caatatgctg actttctctc atccgcacat tcacgagctc ctgtgcaacc gaaccactaa 60
 cacggagcac aagttcgttc ttaactacac gaacaagcca atcatcttct ccattttctcg 120
 cctcgaccat ttcaacaact tgacttttct tttt 154

<210> 20730
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B4

<400> 20730

cacacacaca cacacagaca agtgggtttcc aaagccaagt gtgtgtacta gcaaccagct 60
 agctcgggcg gcagcaggca gccatcatgt ctgatgataa gcaccaccac ttcttcaacc 120
 accacaagat tgacgaggag cagcccgcg gctagtagcg gtactccgag accgaggtgg 180
 tcaccgccac cggcgagggc gagtacgaga ggtacaagaa ggaggagaag gagcacaagc 240
 acaagcagca cctcggcgag gccggcgcca tcgccgcg cgccctcgca ctctacgaga 300
 agcacgatgc gaagaaggac cccgagcacg cgcacaagca caagatca 348

<210> 20731
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-B5

<400> 20731

ggcactctta agccgccagt caagatttgt gcctcgtatg tggagttgtc ttgctggttt 60
gatagagcca ggagaaagcc tggaagaggc agtgagacga gaaacatggg aggaaactgg 120
tatcgaagtt gggcaagtcg tttatcaçag ttctcaacca tggcctgttg ggccaaatac 180
tatgccgtgt caactgatgg tgggcttctt tgcttatgct aaatcattgg agataaacgt 240
ggacaagcag gagcttgaag atgcccagtg gcacaaccgc gaagatgtca agaaagcgtt 300
aacgtttgct gaatacaaga tagcccagag aacaagtgct gccaaagtcg atcagatctg 360
caagggcgct gagaaagggg agagcccctc tgccgacttc aaagttggaa gcngcgagcc 420
tgctccaatg tttg 434

<210> 20732
<211> 182
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-049-Q1-K1-B6
<400> 20732

gtcactctta agccgccagt caagattagt tcctcgtatg tggagatatc ttgcgggtat 60
ggtagaacca gaagaaagcc tggaatttat tttttcacta gaaacatggg attaaactag 120
tatttattta gtacaagaca tttattatat ttctcaacta tggttctgtt aaccaaatac 180
ta 182

<210> 20733
<211> 464
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-049-Q1-K1-B7
<400> 20733

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gcaggcgtag gcacaggcac aggcgtcgga gaagccgtcc accacggcgc cgagctatgt 120
cagcgagtac gtcggcctac gaggcggcgg cggcggcagc gccctctcct gcaccaactc 180
gtcgagcgcg tccgacgccg agctcttcat gaagtttggc gaggtgatct cgcgagcac 240
ggaatagtcc aatagatgga tcattttgtg ttacagttta caataggtgt ctgccgcctt 300

gtgatgtgat gtgactcgct gtaaatatcc tgctgccttc tcggtgggac tccactaggg 360
 actagtagct attnttctcc gttatgcacg tctctctctn tnttttgctg ggaaaatcga 420
 actgtaacta aacgaatgga tttatgtgca ggctgcgttt actg 464

<210> 20734
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B8

<400> 20734

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 caccataggg caaccacgct taaccgatga tgcggcatta ctcggtgctc tgattattca 120
 gcattcgct ctgtcttatt tctagtgtc tactttgctg cgtatattac catctttggt 180
 aggactgtcg gattaaatcc agaacctgta taacactcgg gaaagtgtgc ctaagacctg 240
 atgggtacct ggaatggtaa aggtcgcgcg aagtggattc cagcgcattg gacattgct 299

<210> 20735
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B9

<400> 20735

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 cttggtagtt gttatttggt gtttatttgt gttataagc acaatgtata gcttggtcc 120
 ctgctgtatt tgtttattta ctaggctgaa aactgaaca tcttggttg gcagattagc 180
 acccttaatt tattgcaaat ttgcaaatca gttcacagca tttgcctagc tgtaatgagt 240
 attgattagg tgccccaca acaacttgct ccttggtgctt accggtcgtg actattgagg 300
 tgccccact aacaattttc agtattggtt ggttcactt ccataatgct acctccatat 360
 gttaagtttt ttgttcattc atgactataa atgggttttt aatcacactg tgggtggcat 420
 tcatatgt 428

<210> 20736
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-C1

<400> 20736

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 ctgcccacgg ccgtcctcct acccacagcg tccgcgcgcc gccggctagc gcgtctcccc 180
 gcgcgcggac gcggcgaccg ggacggggga tgtggaggcg ctcagggccg ggggtgtccgt 240
 gtacaagccg cggtcctacg acgtgctcgt caccgacgcg gctcgtctcc tcgcctgcgc 300
 catcgacgac ggcaagaccc ggctcgagat cgaattcccg cctctgccaa gcagcatctc 360
 ttcttacaag ggctcctcag atgagttcat cgatgccaac atccagcttg ctctcgttgt 420
 tgctaggaag ctcaaagagc tc 442

<210> 20737
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-C10

<400> 20737

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 aattgcaatt gaacaaagag aaagatgatt tccaaaggat gacctccaaa accaaaaagc 120
 taatcaaagc acatgggcgt tatataaaag cacaggagga tttaaagagg tctcaggctc 180
 gctttgagag gctagcagat ttgcttgctt cagatatttt gaagccttat accaaggagc 240
 agggttccat cgggtattact gccaatgacg atccatataa tgctaataa atgagcccaa 300
 gcgaccaaag acaaaacat gtttcagcat cgagaaagag acctatttcc ctccaagaa 360
 gtgaagaagc ataaactggt aagagacaga gagagaatgg tgatgatatg attccaacac 420
 cagataacta 430

<210> 20738
 <211> 284

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-C11

<400> 20738

gccacgcgtc cgcagctcgc tagctagcat tctagctggt gcggtgact cttcggttcgg 60
 agtcgccatg gaggagagggc ggaggccccg cgagagcgcc atcgtctgga ggcgacgcgtc 120
 gtcgcgcgcg aactgtgctg cgctgcgacc aaaggtgccg cagctgcgcc gtctcacgcc 180
 ctgcagctag taggcgctcg aggggaccct gcttatccgc acggccgaat acatcgatatg 240
 gatacgaact aggggtggatc ttctcagggc aataacatcc gtct 284

<210> 20739
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-C2

<400> 20739

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 ggggatgagc ctccaaaacc tggaatggag gaaggggccg aaaaattttt tgataacaac 120
 gaaaatgccc ctgatgatgt cataggtgga gagggtgaaa ataaggaaca ggaaaagacc 180
 aagcgtgagc gcaaaacacc aaaatatatg acgaagtatg aacgtgcgcg cattcttggt 240
 acacgagcct tgcagataag catgaatgct ccagtcatgg ttgagcttga agggaaaact 300
 gaccctcttg agattgcat gaaggagct 329

<210> 20740
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-A6

<400> 20740

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 gtcaccacgg cgcaggggtga ggaactgagg atgcagatcg gcgctgcggc ctacatcgag 180

tgcagttcca aaacccagca gaacgtcaag tctgtcttcg atacggccat caaagtggtc 240
cttcagcccc cacggaggat ggaggcagtg cctgccatga agaagaacag gcgtggctcc 300
ggatgctcta taatgaacct tgtgtgtggc agcacatgtg ctgcttatgg agtctactag 360
aacactgaac cggaagggaa gtgaaggcgt gattcatggc gagtaatgcg ctgtggcaac 420
t 421

<210> 20741
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-G4

<400> 20741

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tatcttcacg aagattgtca acgcataata atccacaggg atataaagtc ctccaatatc 120
ttgctggata ataactttga agcactgggt gctgattttg gtcttgcaag gttagctatg 180
gatgcttgca ctcatgtaac cacacgagtg atgggaactt tcgggtacct tgctccagag 240
tacgcgtcaa gcggcaagtt gactgagaga tctgatgtat tctcattcag tgtacgcctc 300
ttggagctta ttactggtag aaagcctgta tacgcatcga agccattggg tgacgagagc 360
cttgttgaat ggg 373

<210> 20742
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-G7

<400> 20742

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cgactgacac taattacaga tttgacctgg ctgtgcagct tggtcgactt gaaatagcga 120
aggtgattgc tactgaggtg caaagtgaat ccaagtggaa gcaattaggg gagttagcta 180
tgtcaaattg aaagcttgaa atggcagagg agtgtcttct acatgcaatg gacctcagtg 240
gtttgttgct tttgtattct tcccttgggg atgccgaagg cattaacaaa ttggcatctg 300

tagccaaaaga acaaggaaaag aacaatgttt ctttcctttg tttcttcacg ctaggaaagc 360
t 361

<210> 20743
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-H1

<400> 20743

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aaggctagga tcggcgcgga tttcctcacc aaggaggtgc agttcgtgga caggctcttc 120
actctgcaaa tatgggacac tgctggccag gaaagggttc agagtctcgg cgttgcattc 180
taccggggag cagattgttg tgtcctagtc tatgatgta attctatgaa atcatttgac 240
aacctgaaca actggcgaga agagtttgta attcaggcta gcccatcaga tcctgataat 300
ttcccttttg ttctggtggg taacaaagtt gatgtagatg gtgggaacag ccgcgtggta 360
tctgagaaaag aagccaaggc atggtgtgct ttcaaagg 398

<210> 20744
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-048-Q1-K1-H10

<400> 20744

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ctgggcaagg gggactggag gggcatctcc aagggttcg tcaccaccag gacggcgacg 120
caggtggcca gccacgcca gaagtacttc ctccggcaga ccaaccccg gatgaagaag 180
cgccgggcca gcctcttcga cgtcggatc gcggactaca aggacaacca ggtgccaggc 240
cctcagagca tcgtcactgc caaacggcg cctacgcagg agataatcca caccgaccgc 300
ggcgacgtcc ccataccaag acgatataga ggctcggag agattttagg cagtaacatg 360
caggttaatc aactgactga ctactactat ttcaacaaga actnccatgt tcccgcgggg 420

<210> 20745
 <211> 158
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-H11

<400> 20745

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 cccacccgga cgacgaggac gaggtctatc cgtaccttgg cgcgagggga gaggaagagg 120
 acacggtcac gttatggtgc ttgacatctg ctgaggag 158

<210> 20746
 <211> 345
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-H12

<400> 20746

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 ggtgatcgtg ggcgcgggt cgcggggcct gtctgcgcg tacgagctgt ccaaggaccc 120
 caccgtgagc gtggccatcg tggagcagtc cgtgtccccg ggcggcggcg cgtggctggg 180
 cgggcagctg ttctcggcca tgggtggtgcg cangccggcg cacctgttcc tggacgagct 240
 gggcgtgggc tacgacgagg ccgaggacta cgtggtggtc aagcacgcgg cgctgttcac 300
 gtnaccgtg atgaagccgc ttcttgccgc gnccaacgtg aagct 345

<210> 20747
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-H2

<400> 20747

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cgcgagtacg ccatcaacct ccacaagcgc ctgcacggat gcaccttcaa gaagaaagcc 180
 cccaatgcta tgaaggaaat caggaagttt gcacagaagg caatggggcac cactgacatc 240
 atgattgatg tgaaactcaa caagcacatc tggagcagtg gtatccggag ggttgctgtg 300
 cgtgttcgtt gtatgatcgc acggctgagg aacgatgagg gagacgccta ggaagagctt 360
 tactctcttg 370

<210> 20748
 <211> 312
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-H3

<400> 20748

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 ctggaggaag tcgaatcttt ttttgctcag tgtggcaagg taaatagtgt gaggctacct 120
 cgacatgttt ctgacaaaag gcatttctgt ggcaactgctt tagttgaatt ttcagaagaa 180
 gatgaggcaa aaggcgtttt tgagaaaaat ctcatTTTTg ctggggcaga cctggaaata 240
 agaccaaaga aagaatttga tactgaaaga gaggcataga aagaagccta tgagaagtca 300
 catcctaata ag 312

<210> 20749
 <211> 152
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-H5

<400> 20749

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 cagggctgag gcngnaagag cagagagaag caaccnnggc angcagccnn gggaggggaac 120
 cgacgaggac ccaagcaagg caagggcgca ca 152

<210> 20750
 <211> 406

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-048-Q1-K1-H6
 <400> 20750
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 aggcacaagc cgacatatgg cggetcagcc tctcctacct cacgcccctg tcaactgaggt 120
 gcgcggtgga gcttggcatt cccacggcga tctaccgcca tggcgggggt gcctcagccg 180
 ctgagctggg caaggcgctg tctctccctt ccactaagct gccgagcctc cgccgcctgc 240
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 atgaaccact gccgtctggg gctcacctgc accttgacgc gctaca 406

<210> 20751
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-048-Q1-K1-H7
 <400> 20751
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 cctcgacctc gccagaaaga gcggaggact tagtgatgag cagatcaaag tgcggcttga 180
 aatcaagcaa cttctcaagg aggtgatca gttgtcaacg ccgtccacat ttgcacaagc 240
 tgctaaactc aagcgcttgg ctgctgcaa ggagaaggaa ctggcaaaaa tgcaggaaca 300
 tgaccttaaa gggaagcaat ccttatacga caatacaca aaatTTTTTgg tggttactaa 360
 ggtccatatt tatgctgggc tcgttctggg cttttggagt actcctgtaa ctgccagttc 420
 acaaca 426

<210> 20752
 <211> 241
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-048-Q1-K1-H9

<400> 20752

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caaggataaa ccatccaggg ggatgtacag tggtcgacag gggtagcatt tatccggctg 120
atgccatgaa cttggcctta atactgatca atgttacagg tgttacaact attgctgggg 180
gagaaattag tcatcgaagg ccatgtttac ggaccaactg ctgaggcaaa attttctact 240
g 241

<210> 20753

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-A1

<400> 20753

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ctcagctggg gacacgttac acccacatgc ctgccgacac atcaccgccg atatcacagc 120
aaagcgggtat ccaggtccgt cgtctacagc ggccggcagcc atgaacaaaag acaagcacca 180
cgagcactag caccacccta ctca 204

<210> 20754

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-A11

<400> 20754

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ggcgcgtgtg aaaccctgtg cgacaacgga ctaaaatggc tgagctgcgc gaactagtat 120
cttgtgtgct agagcatata catcacgact tggatatcgt tggttatata aagagtgtat 180
gcacctgaaa gcattagtgc ttgtgcaatg ccatttcctg aacacgccaa ctacaccagg 240
gacacataat gaacattgaa atgagtgtct actcgagagc ttatcaatcg ggtacctcga 300
agagacttct ttgtggataa acagatg 327

<210> 20755
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-A12

<400> 20755

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 tgcaatggcg gcttcggggg tggcgggcgg cgaggcggtc cggctctcgg ccgcaccagg 180
 ggccggctta ctgaagctgc acaagggcga catcaccctt tggctctgctg actgcgccac 240
 cgacgccatc gttaatgctg ctaatgagcg aatgttaagt ggcggaggtg ttgatggagc 300
 tatacatcaa gctgctggac cagagctagt gcaagcatgc cggaaagttc cagaggtcaa 360
 accaggagtt cgttgtccta ctggagaagc taggattact cctgcttttg agct 414

<210> 20756
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-A3

<400> 20756

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 agcaccacct gcggcggttg tcgggggtgca tggcgtcgtg cctcctggcg ctggtcctca 240
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<210> 20757
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-A4

<400> 20757

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<210> 20758
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-A5

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<210> 20759
 <211> 346
 <212> DNA
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<223> Clone ID: LIB3062-048-Q1-K1-G3

<400> 20759

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346

<210> 20760

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-D10

<400> 20760

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gcaagcaacg ccaaccctga gccagcaacc cccttcttgg aagcttttcg caaccgatta 120

actaaccctt cgcgccaaga ttccggggaaa aaaaccacc ggaacttaac ttgaaccggg 180

gtggttggtt cctgttccgc cgcaccagga ttgaccgaa acccct 226

<210> 20761

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-D4

<400> 20761

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atctctggtc ttgtgggggc atctctacg tgatgcttgt tggctgcctt cccttcgacg 180

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<210> 20762

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-D6

<400> 20762

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tggatgatcag aatgttgcaa ataggtggaa ggcacggtgc gcggaatatt ttccgtactc 180
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<210> 20763
 <211> 163
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-D7

<400> 20763

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<210> 20764
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-D8

<400> 20764

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 agaagtttat tgggtcacttc tgtatccttt gcagttcaga tctttgttct tgtttgttgt 180
 ttcacaataa gtgctgcaaa cattaatcag attatatctt agtcacttct ttttatcttt 240
 acatatgtct aagagattag ccatgtctga ttgacggaac caagatctag ttgtttgtgca 300
 gatgactttc ttcacttttag tatggcaata cggtgtctta ctagcgaaat tggttatttg 360
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<210> 20765
 <211> 231
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-D9

<400> 20765

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 atcatgtatc aactatttat cctatcatca ctctgaccac tttggtattg tgatttcctt 180
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<210> 20766
 <211> 175
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-E10

<400> 20766

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<210> 20767
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-E12

<400> 20767

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 aggcccagcc tcgtggcaag gtcaagaaag gagacgtagt ctacggcgtg gtcgtccgtg 180
 ccgccatgaa gaaaggacgc agcgatggca gcgaggtcca gttcgacgac aacgcgggtg 240
 tcctcgtgaa caagaagggc gagctgatcg gcacccgcgt ctttggcccc gtccccacg 300